

# Paperless Multimedia Congress System



## **HCS-8300 Series G3 Paperless Multimedia Congress System**

<b>HCS-8300 Series G3 Paperless Multimedia Congress System</b> .....	<b>4</b>
<b>HCS-8368/50 Series G3 Paperless Multimedia Congress Terminals</b> .....	<b>19</b>
HCS-8368NBD_B/50      The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, printed nameplate, support PoE, black).....	19
HCS-8368BD_B/50      The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, printed nameplate, support PoE, black).....	22
HCS-8368NAD_B/50      The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, printed nameplate, support PoE, black).....	25
HCS-8368AD_B/50      The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, printed nameplate, support PoE, black).....	28
HCS-8368NAD/FM_B/50      The G3 Paperless Multimedia Congress Terminal (flush-mounting delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, electric lifting, black).....	31
HCS-8368SD_B/50      The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, video display, printed nameplate, support PoE, black).....	34
HCS-8368CSW      Chairman Control Function Software Module.....	36
HCS-8368COVER/50      Protect cover (for HCS-8368/FM/50).....	36
HCS-8360FK/50      Contactless IC Card & Fingerprint Identification Module (tabletop, for HCS-8368/50 series congress terminal, black).....	37
HCS-8360FK/FM/50      Contactless IC Card & Fingerprint Identification Module (flush-mounting, for HCS-8368/50 series congress terminal, black).....	37
<b>HCS-8336    SDI Monitor for Interpreter (10" 1280×800 LCD, HD video display, printed nameplate, silver-gray panel + black base)</b> .....	<b>38</b>
<b>HCS-8685HDMI Series Video Converter</b> .....	<b>39</b>
HCS-8385HDMI/02      Video Converter (2 HDMI output).....	39
HCS-8385HDMI/04      Video Converter (4 HDMI output).....	39
<b>HCS-8300M Series Fully Digital Congress Main Units</b> .....	<b>40</b>
HCS-8300MAD/FS/50      Fully Digital Congress System Main Unit (discussion, voting, 64 CHs, single-mode optical fiber interface, AES/EBU digital input/output, Dante interface, Mixer interface, Mic. group output).....	40
HCS-8300MB/50      Fully Digital Congress System Main Unit (discussion, voting, 64 CHs, Mic. group output).....	43
<b>HCS-8300ME Series Fully Digital Congress System Extension Main Units</b> .....	<b>47</b>
HCS-8300ME/FS      Fully Digital Congress System Extension Main Unit (with 2 single-mode optical fiber interfaces, 4 congress unit outlets).....	47
HCS-8300ME      Fully Digital Congress System Extension Main Unit (4 congress unit outlets).....	48

<b>HCS-8300MES Fully Digital Congress System Extension Unit (3 congress unit outlets)</b> .....	<b>53</b>
HCS-MES-RCF Rack Cabinet Frame (1 HCS-8600MES or HCS-8300MES Extension Unit can be installed).....	53
<b>HCS-8300MCLS Loop Switcher (“Closed Loop - Daisy Chain” connection between conference unit and the main unit)</b> .....	<b>53</b>
<b>HCS-8300MCLS/F Loop Switcher (“Closed Loop - Daisy Chain” connection between the primary conference main unit and the secondary conference main unit)</b> .....	<b>53</b>
HCS-MCLS-RCF Rack Cabinet Frame (4 HCS-8600MCLS or HCS-8300MCLS Loop switchers can be installed).....	53
HCS-MCLS-FC Frame Cover (for HCS-MCLS-RCF).....	53
<b>HCS-8300KMx2 Congress Gigabit Network Switcher (for G3 multimedia congress terminal)</b> .....	<b>55</b>
<b>HCS-8300POE Congress PoE Network Switcher (supports PoE, for HCS-8665 series multimedia congress terminal)</b> .....	<b>55</b>
<b>HCS-8368T Distributor (for G3 multimedia congress terminal)</b> .....	<b>56</b>
<b>HCS-8368T/50 Distributor (for G3 multimedia congress terminal)</b> .....	<b>56</b>
<b>HCS-8300KMx Congress Gigabit Network Switcher</b> .....	<b>57</b>
<b>HCS-8300MX Congress Room Combiner</b> .....	<b>57</b>
<b>HCS-8300PM Power Supply Unit (DC 33 V)</b> .....	<b>58</b>
<b>HCS-8300PM2 Dual Backup Power Supply Unit (DC 33 V)</b> .....	<b>58</b>
<b>HCS-8301MD Digital Audio Mixer for Conference (Dante parameter adjustable)</b> .....	<b>60</b>
<b>HCS-8319N Service Request Control Unit (14" 1920×1080 LCD, capacitive touch panel, support PoE, HCS-8239 &amp; HCS-8241 needed, black)</b> .....	<b>61</b>
<b>HCS-8300MO Series 8 Channels Audio Output Devices</b> .....	<b>62</b>
HCS-8300MOD/FSD 8 Channels Audio Output Device (AES/EBU digital outputs, analog outputs, single-mode optical fiber interface, Dante interface).....	62
HCS-8300MOD 8 Channels Audio Output Device (AES/EBU digital outputs, analog outputs).....	63
HCS-8300MOA/FSD 8 Channels Audio Output Device (analog outputs, single-mode optical fiber interface, Dante interface).....	64
HCS-8300MOA 8 Channels Audio Output Device (analog outputs).....	65
<b>HCS-8300MI Series 8 Channels Audio Input Interfaces</b> .....	<b>67</b>
HCS-8300MID/FSD 8 Channels Audio Input Interface (AES/EBU digital inputs, analog inputs, single-mode optical fiber interface, Dante interface).....	67
HCS-8300MID 8 Channels Audio Input Interface (AES/EBU digital inputs, analog inputs).....	68
HCS-8300MIA/FSD 8 Channels Audio Input Interface (analog inputs, single-mode optical fiber interface, Dante interface).....	69
<b>HCS-8300 Series Application Software</b> .....	<b>72</b>
HCS-8210/50 Basic System Setup Management Software Module.....	73
HCS-8212 Professional Venue Design Software Module.....	78
HCS-8213 Microphone Management Software Module.....	79
HCS-8214 Voting Management Software Module (including delegate management, multiform voting, multi-proposal voting).....	80
HCS-8215 Video Control Software Module.....	81
HCS-8216 Simultaneous Interpretation Software Module.....	82
HCS-8218 Intercom Software Module.....	83
HCS-8219 Synchronous Audio Recording Management Software Module.....	83

HCS-8221	Multi-User Conference Control Software Module.....	84
HCS-8222	Dual PC Server Hot Spare Software Module.....	84
HCS-8223	Agenda Control Software Module.....	85
HCS-8224	Speech Prompt Module (Independant from DCS software, run by PC).....	85
HCS-8225	Dual System Main Unit Hot Spare Software Module.....	86
HCS-8226	Touched/Contactless IC-Card Sign-in Management Software Module.....	86
HCS-8229	Fingerprint Identification Management Software Module.....	87
HCS-8238	CongressMatrix Software Module.....	88
HCS-8239	Congress Service Management Software Module.....	88
HCS-8240	Video Service Software Module.....	89
HCS-8241	File Management Software Module.....	89
HCS-8242	Congress Nameplate Building Software Module.....	90
HCS-8245S	Document Management System Software (Independent setup on PC).....	90
HCS-8245APP	Document Reader APP (for Android system).....	91

## HCS-8300 Series G3 Paperless Multimedia Congress System

### System features

- Especially designed for high-level meetings, such as Summits, congresses, conventions, parliaments and city councils
- The first Paperless Multimedia Congress System in the world
- Based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Paperless Multimedia Congress Terminal - equipped with a 14" (1920X1080) HD TFT LCD touch panel, realizes paperless meetings, various HD video services, interactive conference control functions (speech, voting, 64 CHsX2) and conference services, etc.
- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Capacitive touch panel supporting multi-touch, convenient and efficient for operation
- Built-in 8-megapixel camera with flashlight, ingenious video conversation function
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable. GMC-STREAM fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- Based on ingenious CongressMatrix™ technology, integrated nx8 audio matrix processor to realize 8 channels group output function
- External contactless IC Card reader with fingerprint sensor can be connected (HCS-8368/50)
- Flush-mounted model comes with electric flip-up and angle adjustment (HCS-8368A/FM/50)
- Tabletop (HCS-8368/50)
- Array microphone (HCS-8368A/50)
- Increased reliability with "Closed Loop - Daisy Chain" connection topology
- 48 kHz audio sampling, 64 audio channels, each with a 30 Hz to 20 kHz frequency response for perfect sound quality
- Low power consumption design
- Supports Dante protocol to connect to peripheral digital devices with near-zero latency and synchronization, and without losing any sound quality
- Equipped with optical fiber interface to combine two widely separated conference rooms to form one unique coherent system
- Dual connection backup via optical fiber and Cat.5 cable between Congress Main Unit and Congress Extension Main Unit
- System power controllable by central control system
- Supports combining and separating conference rooms
- Booth combination & share system
- Connectable to multi channel audio input or output devices for versatile expansion of the system
- Connection facility for additional condenser or dynamic microphones, expanding user's application spectrum
- Integrated USB interfaces in the Congress Main Unit for system upgrading and saving system parameters. Convenient for system maintenance
- Downward compatible with TAIDEN HCS-4100/50 Fully Digital Congress System

### Overview

The world's first paperless multimedia congress system, developed by TAIDEN as early as in 2010, has ushered in a new era for the conferencing industry and has been used at many high-profile international conferences and meeting venues, testifying in return to its excellence and superiority.

Not stopping there, TAIDEN later launched its third generation paperless multimedia congress system in 2016. The new system boasts of superb HD paperless experience, greater system reliability, budget-conscious integration of functions and convenient management with its ultra-thin design, larger capacitive touch screen and higher megapixel camera. Either tabletop or flush-mounted model provides its users with faster, more convenient and efficient operation experience.

## 01. The G3 Paperless Multimedia Congress System

### Problems in modern high-level meetings:

- Many functional requirements but multiple systems - independent from each other (digital conference system, sign-in system, video display system, file system, data service, etc.) and systems cannot be integrated effectively
- Preparation/issuance of verbose meeting papers is time-consuming with both low efficiency and low feedback quota
- Waste of resources through large amounts of paper needed in the meeting
- Risk of leaks due to issuance of printed materials
- Manifold interactive multimedia information required (conference materials, computer files, videos, web browsing, voice communication, etc.)
- Perfect readability of information displayed on large screen must be available for every attendee - usually more than one screen is installed, but impossibility to focus on the meeting topics if viewing distance is too high and if view is obstructed
- Deficient communication between participants among each other and between participants and their attendants and assistants
- Operating the variety of desktop devices is very complicated

TAIDEN integrated abundant high-end conference system applications and design experience to develop the world's first multimedia conference which was based on the paperless multimedia conference (mMediaCongress™) operation platform with independent intellectual property rights. It realizes the "paperless meeting" - namely the total electronic mode of conference operation - and management. It reduces the paper consumption and improves the conferencing efficiency. It also realizes a variety of HD video services, video intercom, conference services, interactive conference control and management (discussion, vote, SI), etc., and provides a perfect solution for modern high level meetings.

### HCS-8368/50 series G3 Paperless Multimedia Congress Terminal

HCS-8368/50 series G3 Paperless Multimedia Congress Terminal based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable. From the 1000M bandwidth, a priority of 100M is used to transmit important data, such as audio, voting information and control information. The remaining 900M bandwidth is used for videos, files, Internet data and other multimedia data stream. By this splitting real-time performance and stability of the important audio, voting information, and control information data stream of the meeting is guaranteed. The Terminal is equipped with a 14" (1920X1080) HD TFT LCD, capacitive touch panel and an integrated 8 megapixel camera. HCS-8368/50 series Congress Terminal realize the functions of a two-way communication Multimedia Congress Terminal, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, desktop sharing, delegate information and conference agenda display, take photo, internet access, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels) and broadcasting, short message, call service, etc.



Figure 1 HCS-8368/50 Series Paperless Multimedia Congress Terminal





Figure 2a Design sketch of HCS-8368/50 Series G3 Paperless Multimedia Congress System (flush-mounting, panorama)



Figure 2b Design sketch of HCS-8368/50 Series G3 Paperless Multimedia Congress System (flush-mounting, close-up)





Figure 3a Design sketch of HCS-8368/50 Series G3 Paperless Multimedia Congress System (tabletop, panorama)



Figure 3b Design sketch of HCS-8368/50 Series G3 Paperless Multimedia Congress System (tabletop, close-up)



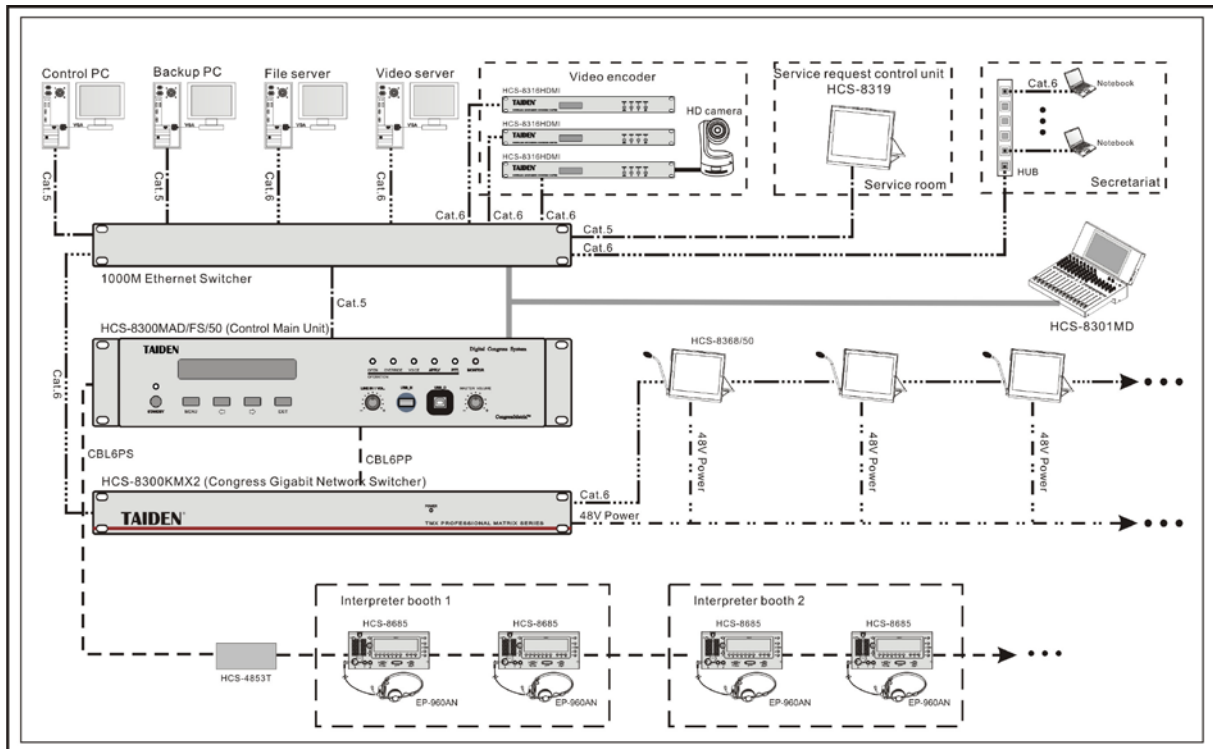


Figure 4a HCS-8368/50 Series G3 Paperless Multimedia Congress System connection diagram

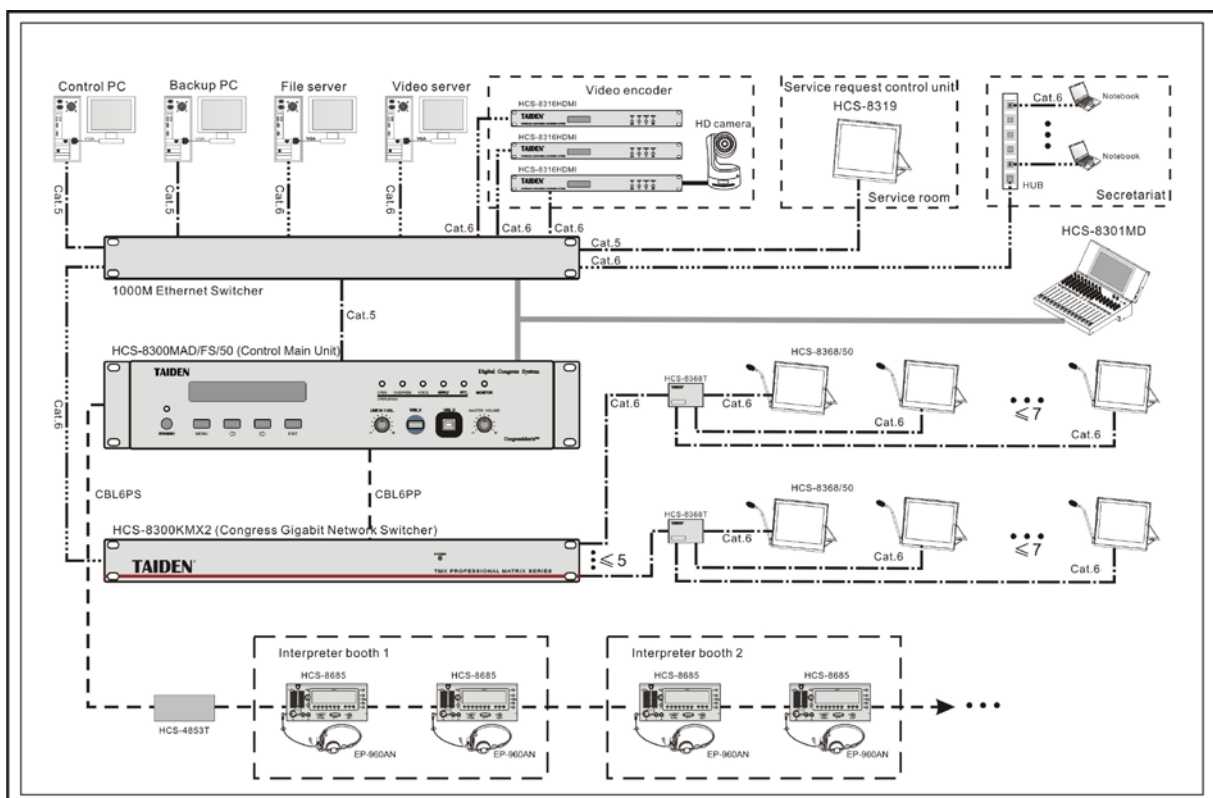
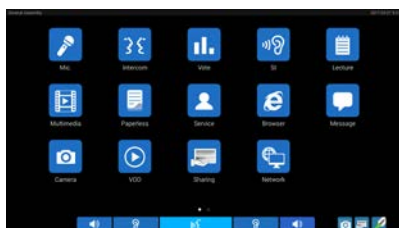
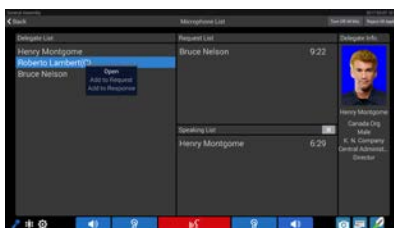


Figure 4b HCS-8368/50 Series G3 Paperless Multimedia Congress System connection diagram  
(PoE, only for tabletop terminals)



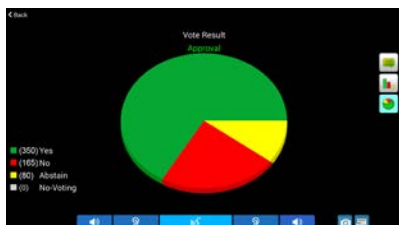
Primary interface



Microphone Management



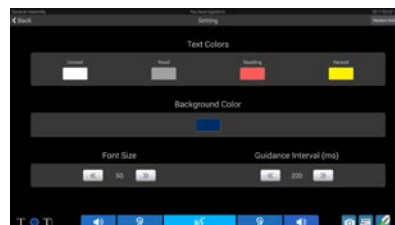
Short Message



Vote result display



Simultaneous interpretation



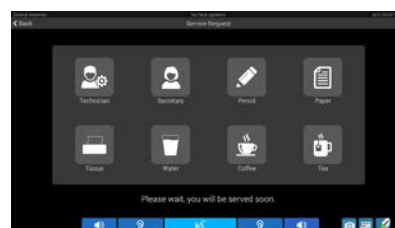
Speech text guidance - setting



Media



Documents reader



Call service



Internet access



Video conversation



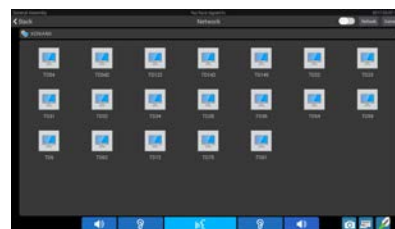
Take photo



Video display



Desktop sharing



Network

Figure 5 User Interfaces of G3 Paperless Multimedia Congress System

**Features of HCS-8300 series Paperless Multimedia Congress System:****■ Full functionality and high integration**

Various types of systems that may be involved in various types of meetings (discussion system, simultaneous interpretation system, voting system, sign-in system, video display system, files and data services system, etc.) are integrated into a single desktop device. Any kind of information display, interactive operations, audio/video and network access requirements are centralized on and controlled via a high-resolution LCD touch panel. Interactive conference control & management (speech, voting, simultaneous interpretation), paperless meetings, video conversation, various video services and conference services, etc. can be realized.

**■ Safe and reliable**

- ◆ Based on the TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof
- ◆ Based on embedded system, the power consumption per unit is less than 15 W; its power is 5% ~ 10% of an x86 system – in the spirit of environmental protection. Significantly protected against the impact of heat
- ◆ Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable. GMC-STREAM fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- ◆ Using daisy-chain connection topology, transmitting signals through single-cable technology. Reliable system components, easy cabling and installation. “Closed Loop - Daisy Chain” topology for enhanced system connection stability
- ◆ No need to install software, simply reset after a system halt
- ◆ System easy to manage, file and data will not be lost

**■ Operation experience**

- ◆ Combining the versatile facilities of high-level conference system applications and design experiences, TAIDEN now provides even more convenient, efficient and professional conference equipment to the participants
- ◆ Capacitive touch panel supporting multi-touch, convenient and efficient for operation
- ◆ Power supply via Congress Main Unit or power supply unit - convenient to switch on/off

## 02. CongressMatrix technology

In an ordinary conference system, the audio signals of the microphones converge into one audio (floor) channel which is transmitted to a PA system with only one channel. For this reason, all system loudspeakers get the same floor channel sound level. Differing voice levels of orators cannot be leveled out by simply adjusting the microphone volume. Due to feedback from a loudspeaker influencing delegates' nearby microphone, a positive feedback loop is formed and produces howl.

But due to the amassment and their close spacing arrangement, long stem microphones greatly affect the visual overall picture within the venue.

Therefore, in many high-level meeting rooms (e.g. Parliament Hall), media matrices and boundary condenser microphones are implemented to solve this problem.

In a media matrix, the audio signal from any microphone can be transmitted at any ratio to any loudspeaker, thus system transmission gain can be increased by an appropriate configuration. All microphones are star connected. But installation, debugging and operation are highly complex. Such a solution should usefully only be applicable if the microphones are within a fixed installation, controlled by professional technical staff. Furthermore, only discussion function is available. A media matrix solution does not feature conference sign-in, voting, simultaneous interpretation, video tracking and intercom function.

To solve above-mentioned shortcomings, TAIDEN successfully developed the proprietary CongressMatrix™ technology (utility patent: 200620054419.6). HCS-8300 Series Paperless Multimedia Congress System is the first Paperless Multimedia Congress System in the world to integrate an nx8 audio matrix processor (n is the number of microphones connected in the system) in the Congress Main Unit.

- 8 discrete audio outputs, including:
  - ◆ Line Output 1 / AESOut 1: 15 band graphical EQ + 8 band parameterized EQ + DRC (dynamic range compressor)
  - ◆ Line Output 2 / AESOut 2: 5 band graphical EQ + DRC (dynamic range compressor)
  - ◆ Group output 1~6: 5 band graphical EQ + DRC (dynamic range compressor) + time delay (maximum delay time for 32 kHz sampling rate is 1.5 s, maximum delay time for 48 kHz sampling rate is 1 s)
- Connectable to a multi channel independent PA system (up to 8 channels). Each channel is supplied with its proper audio signal. The audio signal of each microphone can be routed to any speaker at any ratio, thus "N-1" function can be realized easily: (when the microphone in one area is turned on, its audio signal is only routed to all areas except to its own) avoiding acoustic feedback (howl) when audio transmission gain is increased
- 8 channels group output function
- Recording by group function
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Displays audio signal spectrum to determine howling frequency which can be suppressed by adjusting EQ parameters
- 2 audio line in (analog, digital, Dante) or 1 audio line in (analog, Dante) + 1 microphone input, gain and EQ for each input adjustable separately. +24 V phantom power supply at microphone input, condenser microphone can be connected directly
- Connectable to multi channel audio input or output devices for versatile expansion of the system



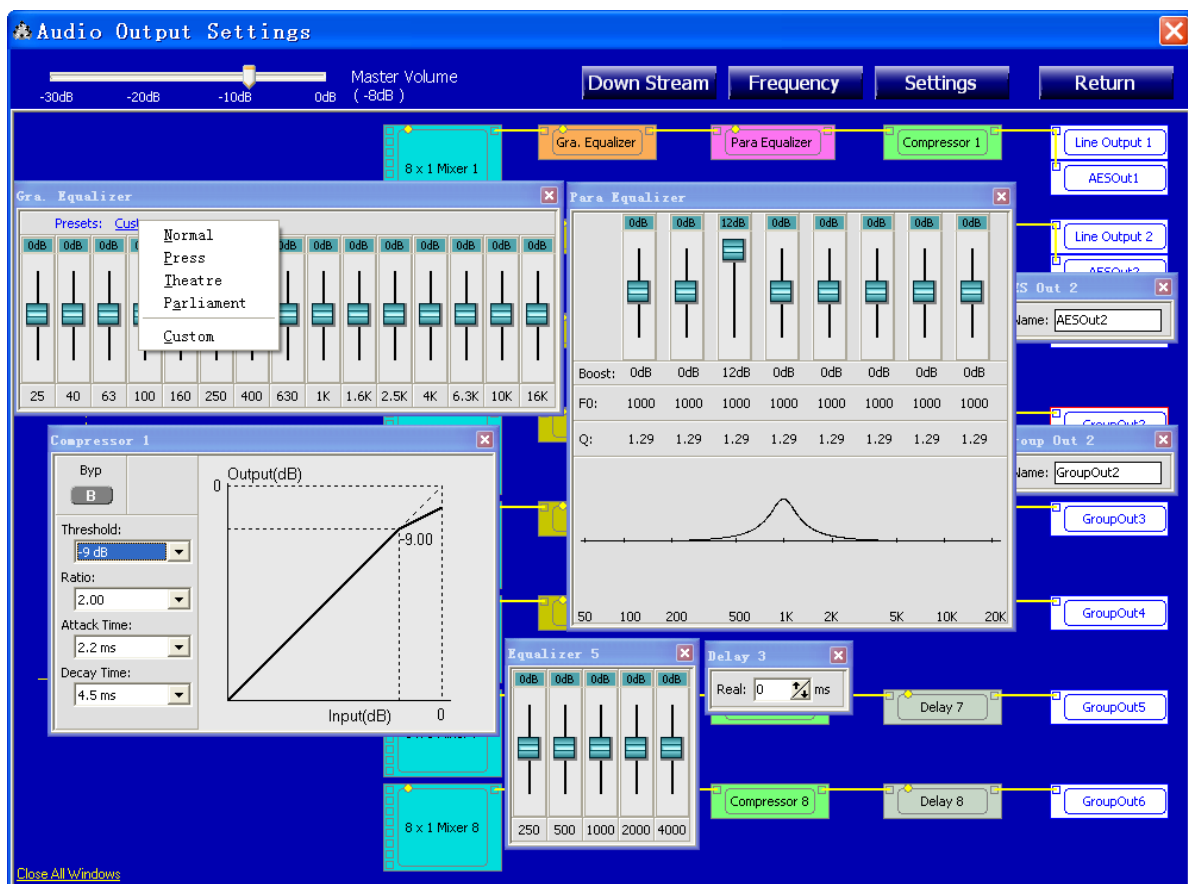
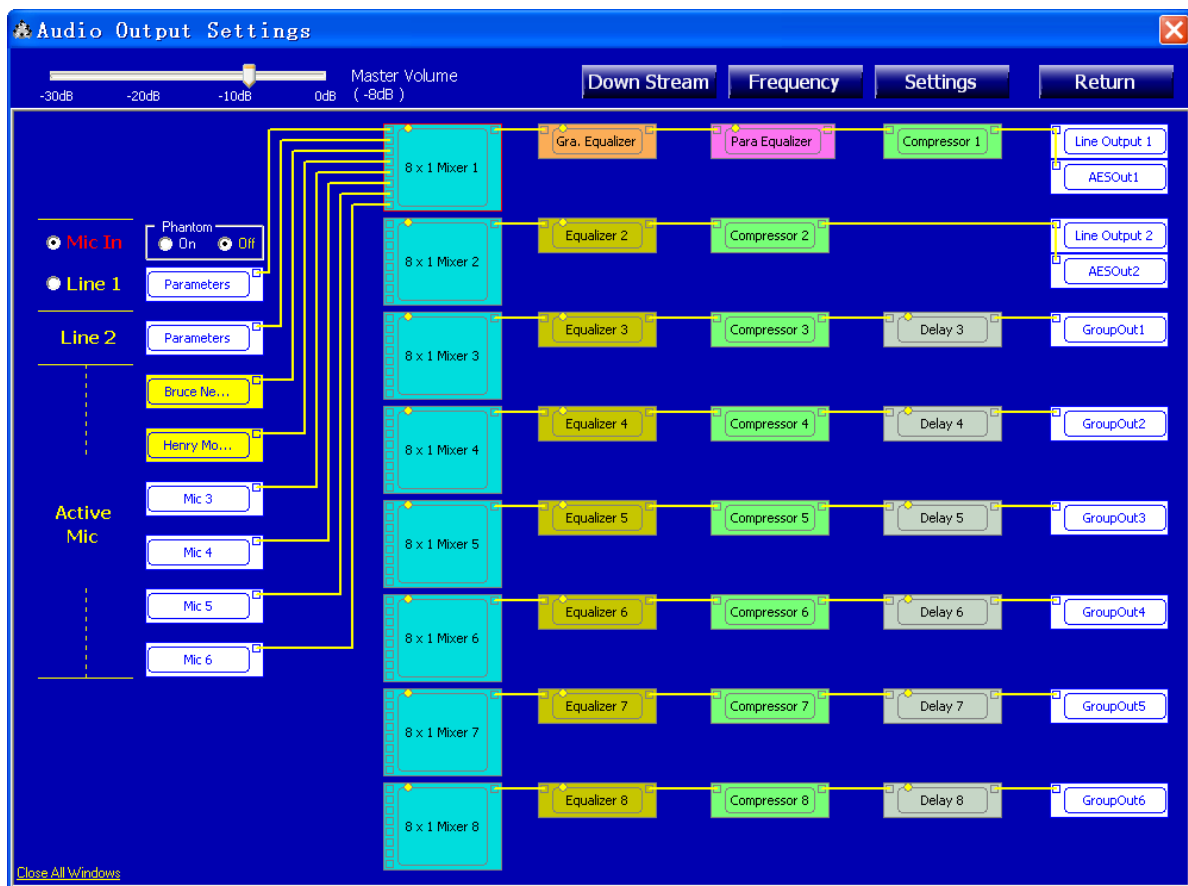


Figure 6 CongressMatrix Software Interface

HCS-8300 Series Paperless Multimedia Congress System can be connected to a multi channel audio amplifier and several groups of loudspeakers. There will be no acoustic feedback (howl) when audio transmission gain is increased. As shown in figure 7: the venue is divided into several areas according to the actual seating arrangement (maximum 8 areas), each area corresponds to a group of loudspeakers. The microphones in area n are arranged in group n and correspond to group n audio output.

The loudspeakers in area n correspond to group n audio output (as shown in figure 8). As an example: the microphones in area 1 are close to the loudspeakers belonging to group 1. This condition generates feedback easily. To avoid howling, audio gain of group 1 microphones for group 1 loudspeakers should be decreased. Audio gain of group 1 microphones for group 2 to 8 loudspeakers can be kept higher than for group 1 loudspeakers.

A better performance is achieved in above example when group 1 of loudspeakers is switched off.

Generally spoken: when the microphone in one area is turned on, its audio signal is routed only to the group of loudspeakers of the other areas but not to the group of loudspeakers of its own area. This "N-1" function avoids howling caused by audio feedback.

For HCS-8300 Series Paperless Multimedia Congress System, integrating CongressMatrix technology, the audio signal of each microphone can be routed to any loudspeaker at any ratio to increase audio transmission gain. The orator speaks at a greater distance from the microphone using a shorter microphone or even a microphone without a stem (for example HCS-8315 series) - bringing the era of long gooseneck microphones to an end.

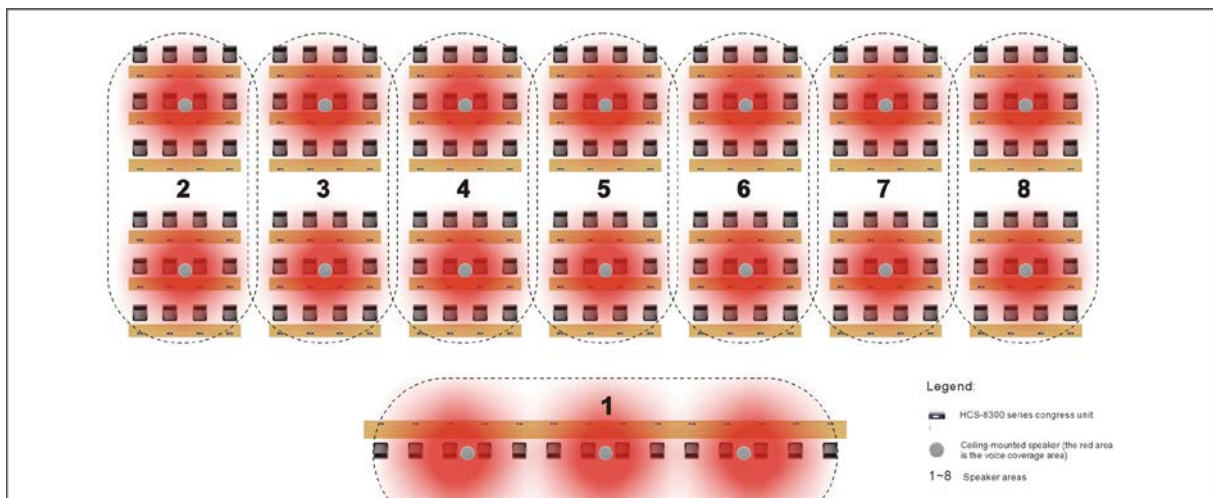


Figure 7 Area groups of the venue

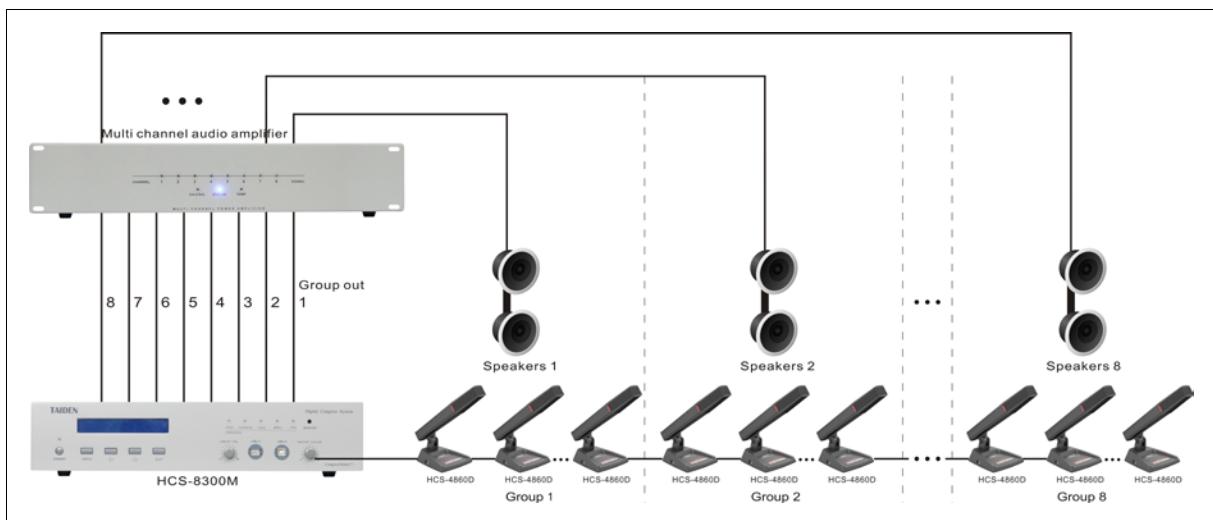


Figure 8 HCS-8300 Series Digital Congress System connected to a multi channel audio amplifier with "N-1" function to cancel howl

### 03. Microphone-array technology

By adopting microphone-array technology, the sound pick-up performance of the HCS-8368A/50 series Paperless Multimedia Congress Terminal is improved considerably. In interaction with the CongressMatrix technology, the acoustic transmission gain is increased: the orator is now in a position to speak at a greater distance from the microphone. By using microphone-array, the conference room looks tidy. There is no discomfort for the orator as his view is no longer blocked by a microphone stem. The orator has a large operating range with a clear and stable pick-up performance (a suitable architectural room acoustics is needed when using microphone-array).



Figure 9 Polar pattern of HCS-8368A/50 Paperless Multimedia Congress Terminal



Figure 10 By using microphone-array terminals, the conference room looks tidy

#### 04. Duplicate and backup connection via “Closed Loop - Daisy Chain” connection topology

For important meetings, especially those which consider connection reliability as their leading point, HCS-8300 Series Paperless Multimedia Congress System adopts advanced “Closed Loop - Daisy Chain” connection topology, connecting the last unit in the loop back to the Congress Main Unit. Therefore, any Congress Unit in the loop has two connection paths to the Congress Main Unit. As a result, breakdown or replacement of a Congress Unit and

connection failure of a cable will not influence other Congress Units. As such the system features the advantages of a daisy chain connection system with its simplicity of cabling as well as the improvement of the system reliability by means of duplicate and backup connection functions.

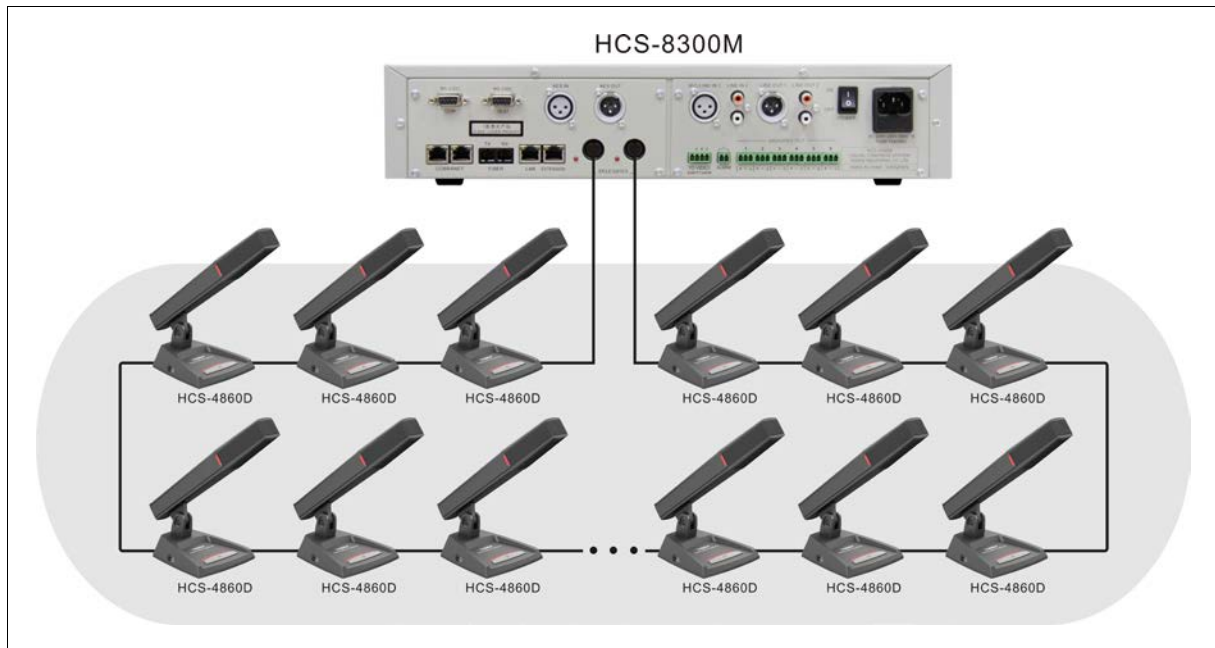


Figure 11 “Closed Loop - Daisy Chain” connection topology

#### 05. Perfect sound quality on all 64 simultaneous interpretation channels

All channels (1 floor channel and 63 interpretation channels) support 48 kHz and 32 kHz audio sampling rate featuring perfect CD sound quality with a frequency of 30 Hz to 20 kHz at 48 kHz sampling rate.

#### 06. Low power consumption design

Low power consumption design is adopted in HCS-8300 and HCS-4100/50 series Congress Units, convenient for wiring and installation. All Congress Units of HCS-8300 and HCS-4100/50 series (except paperless multimedia terminal) are supplied by the Congress Main Unit's 6P-DIN interface. Since the power capacity of the 6P-DIN interface is limited, it must be ensured during installation that the added up values of a) the total power consumption of all Congress Units connected in each path and b) the power loss in connection cables do in no case exceed the maximum possible value delivered by each 6P-DIN interface. Otherwise the system will not work properly or automatic protection will be triggered.

#### 07. Supports Dante protocol

Supports Dante protocol, an uncompressed, multi-channel digital media networking technology. “Line out 1” audio signal is available for transmission from HCS-8300MAD/FS/50 to other Dante compatible devices (such as PA, audio recorder, etc.). The audio signals of two venues are available for networking purposes via Dante with near-zero latency and synchronization, and without losing any sound quality.

#### 08. AES/EBU digital input/output interface

HCS-8300MAD/FS/50 has one set of AES IN and AES OUT interface, and can connect to AES/EBU compatible digital audio devices via XLR 3-cord shielded cable.



## 09. Combine/separate conference rooms easily

HCS-8300 series Paperless Multimedia Congress System supports combining/separating function for multiple meeting rooms.

### A. Using Cat.5 cable, several meeting rooms can be combined/separated at will through HCS-8300MX Congress Room Combiner

Advantage: one HCS-8300MX can combine up to 8 meeting rooms controlled by a Central Control System. (Several HCS-8300MX are cascadable to combine additional meeting rooms)

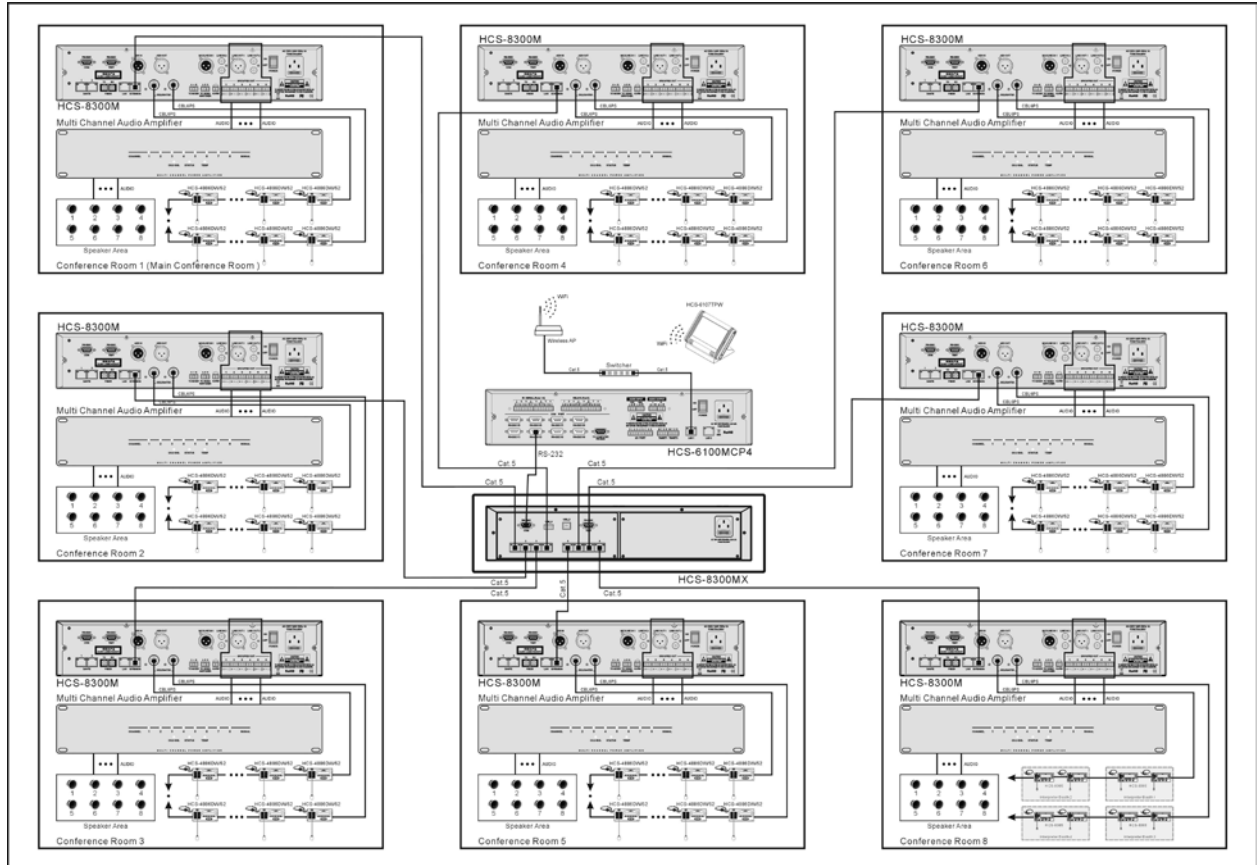


Figure 12a Rooms can be combined/separated through HCS-8300MX Congress Room Combiner

### B. The Congress Main Units of two widely separated meeting rooms can be connected via optical fiber interface and combined as one

Advantage: long distance, can reach several tens of kilometers.

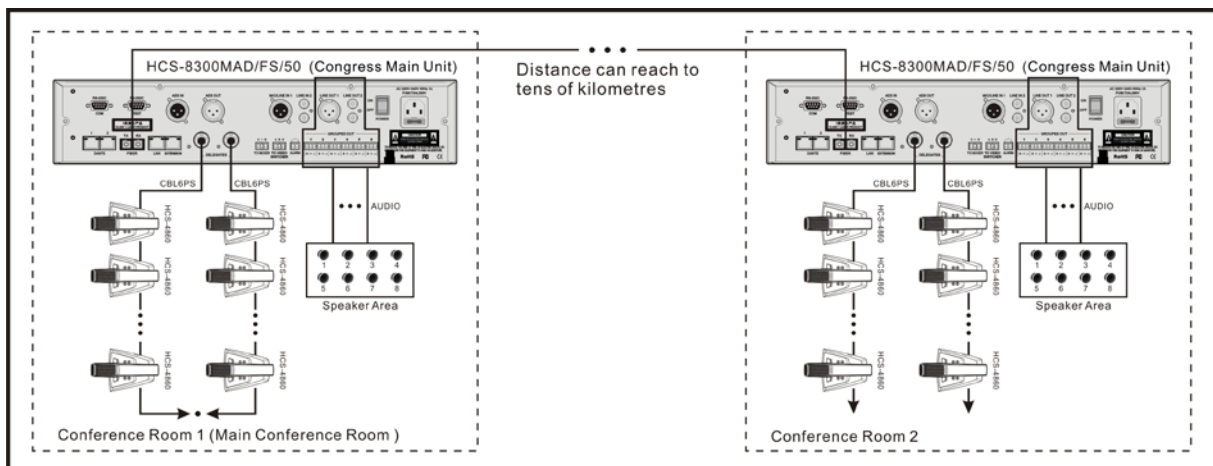


Figure 12b Rooms can be connected via optical fiber interface

**C. Several meeting rooms using capacitor microphones can be combined or separated through HCS-8300M Congress Main Unit, HCS-8300MI Audio Input Interface and HCS-8300MO Audio Output Device.**

**Advantage:** several meeting rooms can share one Congress Main Unit to reduce costs.

**Disadvantage:** the microphones are star connected, the system is complex and difficult to manage, and only discussion feature can be realized - no conference sign-in, voting, simultaneous interpretation, video tracking, intercom, etc.

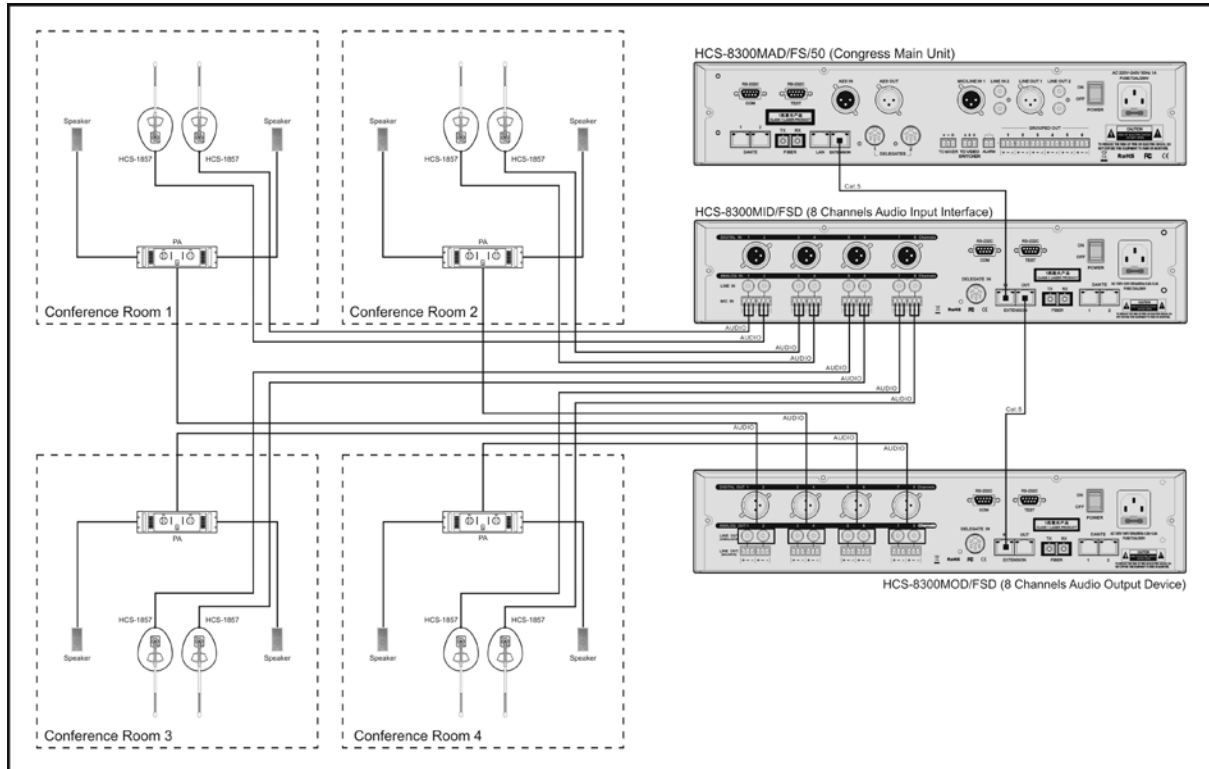


Figure 12c Rooms can be combined/separated through HCS-8300MI and HCS-8300MO

## 10. Full system backup

In HCS-8300 series, dual connection backup is implemented between the Congress Main Unit and the Congress Extension Main Unit via optical fiber and Cat.5 cable. Combining a) dual Congress Main Unit hot spare function, b) dual PC server hot spare function and c) "Closed Loop - Daisy Chain" connection topology between Congress Units, full system backup is realized to improve system reliability.

## 11. System power management by central control system

The power management protocol of HCS-8300 series Congress Main Unit is open, enabling remote switch on/off of power supply via RS232 by a Central Control System.

## 12. Connection facility for additional condenser or dynamic microphones

In combination with HCS-8300MI series audio input interface, additional condenser microphones or dynamic microphones can be connected to the system (phantom power supply provided), expanding user's application spectrum.

### 13. Remote interpretation

In conjunction with a HCS-8300MI/MO and a telephone coupler, cost-saving remote interpretation function can be realized.

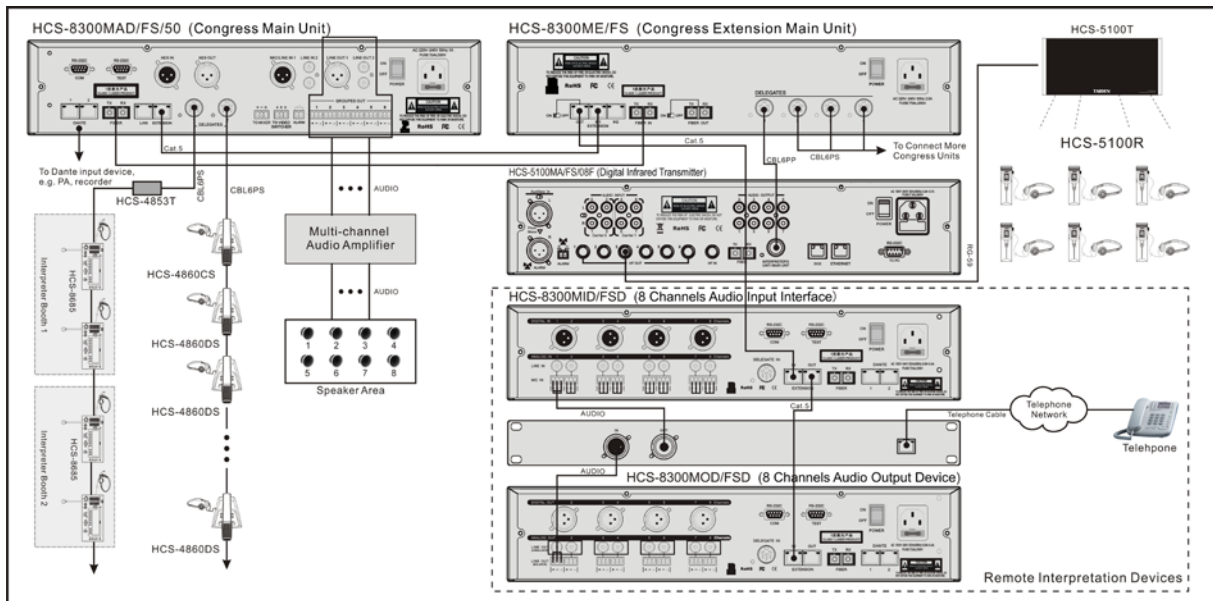


Figure 14 Remote interpretation

### 14. USB interfaces integrated in the Congress Main Unit

USB interfaces are integrated in the Congress Main Unit for upgrading the system and saving system parameters. Convenient for system maintenance.

### 15. Fully compatible with TAIDEN HCS-4100/50 Fully Digital Congress System

HCS-8300 Series Paperless Multimedia Congress System is completely downward compatible to the TAIDEN HCS-4100/50 Fully Digital Congress System and features all its functions, e.g. conference sign-in, voting, simultaneous interpretation, video tracking, intercom, etc. Congress Units of the HCS-4100/50 series Congress System can be looped into a HCS-8300 Congress System. But some exclusive functions are only available on HCS-8300 contribution units. Likewise, Congress Units of the HCS-8300 Series Congress System can also be inserted into a HCS-4100/50 Fully Digital Congress System.

## HCS-8368NBD/50

### The G3 Paperless Multimedia Congress Terminal



#### Features

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Electronic document distribution for paperless meetings
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting
- Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience
- Capacitive touch panel supporting multi-touch, improves operation experience
- 8-megapixel camera with flashlight
- "Closed Loop - Daisy Chain" connection topology
- Based on TAIDEN originated MCA-STREAM (Multi\_Channel\_Audio STREAM) digital processing and transmitting technologies
- 64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half
- Transmitting up to 64 CHs high quality digital audio signals
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Excellent immunity to RF interferences from mobile phones
- Supporting "PnP" (plug and play)
- DC or PoE power supply
- Internet access

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

#### Functions

- Compliant to ISO 22259
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units in the system
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Interactive conference control and management function:
  - ◆ Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit
  - ◆ Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.
  - ◆ Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.
- Paperless conference functions:
  - ◆ Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  - ◆ Speech text guidance: speed, font size and font colors configurable by user



- ◆ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
- ◆ Image file reader
- ◆ Desktop sharing: documents issued by this Congress Terminal can be displayed on large hall screens and other Congress Terminals to realize ad hoc reporting
- ◆ Delegate information and conference agenda display
- ◆ Take photo
- ◆ Delegate photo for attendance check and record facility on important conferences
- ◆ Internet access: related information is available through the Internet or the LAN during the meeting
- Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- Multiform video service:
  - ◆ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ◆ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ◆ Video display function:
    - The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - Video file playback either from Paperless Multimedia Congress Terminal or from SD card
- Conference service:
  - ◆ Short messages reader and editor
  - ◆ Call service, call secretary
- Based on TAIDEN originated MCA-STREAM digital audio technology
- Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Mini-microphone, with foam windshield
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Optional printed nameplate (297×109 mm) (HCS-8368NBD/50)
- External contactless IC Card reader with fingerprint sensor can be connected
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Facilities in stand-alone operation:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off icon to talk
  - ◆ Key press sign-in
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- Getting authorized from file server, the following meeting control functions will be provided:
  - ◆ Microphone control
  - ◆ Voting control
  - ◆ Desktop sharing control

### Controls and Indicators

- Graphic 14" LCD touch panel for interactive functions
- Uni-directional electret condenser microphone with two-color illuminated ring
- Channel select icons
- Headphones volume up and down icons
- Microphone On/Off icon

### Interconnections

- 2 × Ø 3.5 mm stereo headphone jack with volume control
- SD card slot for extended storage and system upgrade
- DC power supply:
  - ◆ Two Gigabit network ports for "daisy chain" connection
  - ◆ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- PoE: the Gigabit network port nearby the microphone supports PoE

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## Technical Specifications

### Electrical

Max. consumption.....14 W

### LCD

Type.....True color TFT LCD

Dimension.....14 inches, 16:9

Resolution.....1920×1080

Display color.....2<sup>18</sup>(18 bit)

Contrast.....700:1

### Headphone connection

Frequency response.....30 Hz to 20 kHz

Earphone load impedance.....>16 Ohm

Earphone output.....13 mW

### Microphone

Transducer.....Electret-condenser

Polar pattern.....Uni-directional

Operating voltage.....5 VDC

Sensitivity.....-46 dBV/Pa

Frequency response.....50 Hz to 20 kHz

Input impedance.....2 kOhm

Directivity 0°/180°.....> 20 dB (1 kHz)

Equivalent noise.....20 dBA (SPL)

Maximum sound pressure level.....125 dB (THD<3%)

### Interface data

Connector.....2 × Ø 3.5 mm stereo jack for headphone

### Mechanical

Mounting.....Tabletop

Dimensions (h × w × d) (w/o microphone)

.....210 × 349 × 122 mm

Weight (incl. microphone).....2.1 kg

Color.....Black (PANTONE 419 C)

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## Ordering Information

HCS-8368NBD\_B/50.....The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, printed nameplate, support PoE, black)

## HCS-8368BD/50

### The G3 Paperless Multimedia Congress Terminal



#### Features

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Electronic document distribution for paperless meetings
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting
- Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience
- Capacitive touch panel supporting multi-touch, improves operation experience
- 8-megapixel camera with flashlight
- "Closed Loop - Daisy Chain" connection topology
- Based on TAIDEN originated MCA-STREAM (Multi\_Channel\_Audio STREAM) digital processing and transmitting technologies
- 64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half
- Transmitting up to 64 CHs high quality digital audio signals
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Excellent immunity to RF interferences from mobile phones
- Supporting "PnP" (plug and play)
- DC or PoE power supply

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

#### Functions

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- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
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  - ◆ Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.
  - ◆ Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.
- Paperless conference functions:
  - ◆ Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  - ◆ Speech text guidance: speed, font size and font colors configurable by user

- ◆ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
- ◆ Image file reader
- ◆ Desktop sharing: documents issued by this Congress Terminal can be displayed on large hall screens and other Congress Terminals to realize ad hoc reporting
- ◆ Delegate information and conference agenda display
- ◆ Take photo
- ◆ Delegate photo for attendance check and record facility on important conferences
- Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- Multiform video service:
  - ◆ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ◆ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ◆ Video display function:
    - The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - Video file playback either from Paperless Multimedia Congress Terminal or from SD card
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  - ◆ Short messages reader and editor
  - ◆ Call service, call secretary
- Based on TAIDEN originated MCA-STREAM digital audio technology
- Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Mini-microphone, with foam windshield
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Optional printed nameplate (297×109 mm) (HCS-8368BD/50)
- External contactless IC Card reader with fingerprint sensor can be connected
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Facilities in stand-alone operation:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off icon to talk
  - ◆ Key press sign-in
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- Getting authorized from file server, the following meeting control functions will be provided:
  - ◆ Microphone control
  - ◆ Voting control
  - ◆ Desktop sharing control

### Controls and Indicators

- Graphic 14" LCD touch panel for interactive functions
- Uni-directional electret condenser microphone with two-color illuminated ring
- Channel select icons
- Headphones volume up and down icons
- Microphone On/Off icon

### Interconnections

- 2 × Ø 3.5 mm stereo headphone jack with volume control
- SD card slot for extended storage and system upgrade
- DC power supply:
  - ◆ Two Gigabit network ports for "daisy chain" connection
  - ◆ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- PoE: the Gigabit network port nearby the microphone supports PoE



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## Technical Specifications

### Electrical

Max. consumption.....14 W

### LCD

Type.....True color TFT LCD

Dimension.....14 inches, 16:9

Resolution.....1920×1080

Display color.....2<sup>18</sup>(18 bit)

Contrast.....700:1

### Headphone connection

Frequency response.....30 Hz to 20 kHz

Earphone load impedance.....>16 Ohm

Earphone output.....13 mW

### Microphone

Transducer.....Electret-condenser

Polar pattern.....Uni-directional

Operating voltage.....5 VDC

Sensitivity.....-46 dBV/Pa

Frequency response.....50 Hz to 20 kHz

Input impedance.....2 kOhm

Directivity 0°/180°.....> 20 dB (1 kHz)

Equivalent noise.....20 dBA (SPL)

Maximum sound pressure level.....125 dB (THD<3%)

### Interface data

Connector.....2 × Ø 3.5 mm stereo jack for headphone

### Mechanical

Mounting.....Tabletop

Dimensions (h × w × d) (w/o microphone)

.....210 × 349 × 122 mm

Weight (incl. microphone).....2.1 kg

Color.....Black (PANTONE 419 C)

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## Ordering Information

HCS-8368BD\_B/50.....The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, printed nameplate, support PoE, black)

## HCS-8368NAD/50

### The G3 Paperless Multimedia Congress Terminal



#### Features

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Electronic document distribution for paperless meetings
- By adopting microphone-array technology, the sound pick-up performance is improved considerably
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting
- Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience
- Capacitive touch panel supporting multi-touch, improves operation experience
- 8-megapixel camera with flashlight
- "Closed Loop - Daisy Chain" connection topology
- Based on TAIDEN originated MCA-STREAM (Multi\_Channel\_Audio STREAM) digital processing and transmitting technologies
- 64 CHs × 2 interpretation (tabletop terminal) with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half
- Transmitting up to 64 CHs high quality digital audio signals
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Excellent immunity to RF interferences from mobile phones
- Supporting "PnP" (plug and play)
- DC or PoE power supply
- Internet access

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

#### Functions

- Compliant to ISO 22259
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
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  - ◆ Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit
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- Paperless conference functions:
  - ◆ Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  - ◆ Speech text guidance: speed, font size and font colors configurable by user

- ◆ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
- ◆ Image file reader
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- ◆ Take photo
- ◆ Delegate photo for attendance check and record facility on important conferences
- ◆ Internet access: related information is available through the Internet or the LAN during the meeting
- Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- Multiform video service:
  - ◆ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ◆ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ◆ Video display function:
    - The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - Video file playback either from Paperless Multimedia Congress Terminal or from SD card
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  - ◆ Short messages reader and editor
  - ◆ Call service, call secretary
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- Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Microphone array technology
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Optional printed nameplate (297×109 mm) (HCS-8368NAD/50)
- External contactless IC Card reader with fingerprint sensor can be connected
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Facilities in stand-alone operation:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
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  - ◆ Key press sign-in
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules
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  - ◆ Desktop sharing control

### Controls and Indicators

- Graphic 14" LCD touch panel for interactive functions
- Uni-directional electret condenser microphone with two-color illuminated ring
- Channel select icons
- Headphones volume up and down icons
- Microphone On/Off icon

### Interconnections

- 2 × Ø 3.5 mm stereo headphone jack with volume control
- SD card slot for extended storage and system upgrade
- DC power supply:
  - ◆ Two Gigabit network ports for "daisy chain" connection
  - ◆ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- PoE: the Gigabit network port nearby the microphone supports PoE

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## Technical Specifications

### Electrical

Max. consumption.....14 W

### LCD

Type.....True color TFT LCD

Dimension.....14 inches, 16:9

Resolution.....1920×1080

Display color.....2<sup>18</sup>(18 bit)

Contrast.....700:1

### Headphone connection

Frequency response.....30 Hz to 20 kHz

Earphone load impedance.....>16 Ohm

Earphone output.....13 mW

### Microphone

Transducer.....Electret-condenser

Polar pattern.....Uni-directional

Operating voltage.....5 VDC

Sensitivity.....-46 dBV/Pa

Frequency response.....50 Hz to 20 kHz

Input impedance.....2 kOhm

Directivity 0°/180°.....> 20 dB (1 kHz)

Equivalent noise.....20 dBA (SPL)

Maximum sound pressure level.....125 dB (THD<3%)

### Interface data

Connector.....2 × Ø 3.5 mm stereo jack for headphone

### Mechanical

Mounting.....Tabletop

Dimensions (h × w × d) (w/o microphone).....210 × 349 × 122 mm

Weight (incl. microphone).....2.1 kg

Color.....Black (PANTONE 419 C)

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## Ordering Information

HCS-8368NAD\_B/50.....The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, printed nameplate, support PoE, black)

## HCS-8368AD/50

### The G3 Paperless Multimedia Congress Terminal



#### Features

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Electronic document distribution for paperless meetings
- By adopting microphone-array technology, the sound pick-up performance is improved considerably
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting
- Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience
- Capacitive touch panel supporting multi-touch, improves operation experience
- 8-megapixel camera with flashlight
- "Closed Loop - Daisy Chain" connection topology
- Based on TAIDEN originated MCA-STREAM (Multi\_Channel\_Audio STREAM) digital processing and transmitting technologies
- 64 CHs × 2 interpretation (tabletop terminal) with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half
- Transmitting up to 64 CHs high quality digital audio signals
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Excellent immunity to RF interferences from mobile phones
- Supporting "PnP" (plug and play)
- DC or PoE power supply

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

#### Functions

- Compliant to ISO 22259
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units in the system
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Interactive conference control and management function:
  - ◆ Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit
  - ◆ Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.
  - ◆ Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.
- Paperless conference functions:
  - ◆ Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  - ◆ Speech text guidance: speed, font size and font colors configurable by user



- ◆ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
- ◆ Image file reader
- ◆ Desktop sharing: documents issued by this Congress Terminal can be displayed on large hall screens and other Congress Terminals to realize ad hoc reporting
- ◆ Delegate information and conference agenda display
- ◆ Take photo
- ◆ Delegate photo for attendance check and record facility on important conferences
- Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- Multiform video service:
  - ◆ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ◆ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ◆ Video display function:
    - The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - Video file playback either from Paperless Multimedia Congress Terminal or from SD card
- Conference service:
  - ◆ Short messages reader and editor
  - ◆ Call service, call secretary
- Based on TAIDEN originated MCA-STREAM digital audio technology
- Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Microphone array technology
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Optional printed nameplate (297×109 mm) (HCS-8368AD/50)
- External contactless IC Card reader with fingerprint sensor can be connected
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Facilities in stand-alone operation:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off icon to talk
  - ◆ Key press sign-in
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- Getting authorized from file server, the following meeting control functions will be provided:
  - ◆ Microphone control
  - ◆ Voting control
  - ◆ Desktop sharing control

## Controls and Indicators

- Graphic 14" LCD touch panel for interactive functions
- Uni-directional electret condenser microphone with two-color illuminated ring
- Channel select icons
- Headphones volume up and down icons
- Microphone On/Off icon

## Interconnections

- 2 × Ø 3.5 mm stereo headphone jack with volume control
- SD card slot for extended storage and system upgrade
- DC power supply:
  - ◆ Two Gigabit network ports for "daisy chain" connection
  - ◆ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- PoE: the Gigabit network port nearby the microphone supports PoE

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## Technical Specifications

### Electrical

Max. consumption.....14 W

### LCD

Type.....True color TFT LCD

Dimension.....14 inches, 16:9

Resolution.....1920×1080

Display color.....2<sup>18</sup>(18 bit)

Contrast.....700:1

### Headphone connection

Frequency response.....30 Hz to 20 kHz

Earphone load impedance.....>16 Ohm

Earphone output.....13 mW

### Microphone

Transducer.....Electret-condenser

Polar pattern.....Uni-directional

Operating voltage.....5 VDC

Sensitivity.....-46 dBV/Pa

Frequency response.....50 Hz to 20 kHz

Input impedance.....2 kOhm

Directivity 0°/180°.....> 20 dB (1 kHz)

Equivalent noise.....20 dBA (SPL)

Maximum sound pressure level.....125 dB (THD<3%)

### Interface data

Connector.....2 × Ø 3.5 mm stereo jack for headphone

### Mechanical

Mounting.....Tabletop

Dimensions (h × w × d) (w/o microphone).....210 × 349 × 122 mm

Weight (incl. microphone).....2.1 kg

Color.....Black (PANTONE 419 C)

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## Ordering Information

HCS-8368AD\_B/50.....The G3 Paperless Multimedia Congress Terminal (delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, printed nameplate, support PoE, black)

## HCS-8368NAD/FM/50

### The G3 Paperless Multimedia Congress Terminal



#### Features

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Electronic document distribution for paperless meetings
- By adopting microphone-array technology, the sound pick-up performance is improved considerably
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting
- Equipped with a 14" LCD touch panel (1920×1080), 16:9 display ratio offers better document reading experience
- Capacitive touch panel supporting multi-touch, improves operation experience
- 8-megapixel camera with flashlight
- "Closed Loop - Daisy Chain" connection topology
- Based on TAIDEN originated MCA-STREAM (Multi\_Channel\_Audio STREAM) digital processing and transmitting technologies
- 64 CHs interpretation with volume control
- Transmitting up to 64 CHs high quality digital audio signals
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Excellent immunity to RF interferences from mobile phones
- Supporting "PnP" (plug and play)
- DC power supply
- Internet access

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. conference control & management (speech, vote, simultaneous interpretation), sign-in, conference documents management, speech text guidance, conference documents reader and editor, desktop sharing, delegate information and conference agenda display, take photo, delegate photo for attendance check and record facility on important conferences, video conversation, video display, multiple channel VOD (up to 10 channels with 1920×1080 resolution) and broadcasting, short message, call service, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

#### Functions

- Compliant to ISO 22259
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable, paperless multimedia functions and basic capabilities of discussion and voting are parallel operations, fully guarantees the real-time performance and stability of the important data stream of the meeting, such as audio, voting information, and control information
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
- "Closed Loop - Daisy Chain" connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units in the system
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Interactive conference control and management function:
  - ◆ Microphone control: display of venue layout, speaking list, request-to-speak list, etc., corresponding microphone control functions for authorized unit
  - ◆ Voting management: sign-in, select proposal, multiform voting, voting result display and taking photo for voting, etc.
  - ◆ Simultaneous interpretation management: switch language channel by one touch and adjust earphone volume, etc.
- Paperless conference functions:
  - ◆ Conference documents management: Download/upload files from/to file server with Paperless Multimedia Congress Terminal. Control of uploading, downloading or deleting of an individual or a batch of Paperless Multimedia Congress Terminals also by file server. Rights for conference documents management and for saving documents to archives
  - ◆ Speech text guidance: speed, font size and font colors configurable by user

- ◆ Conference documents (.txt, .doc, .ppt, .xls, .pdf, .jpg, .png, .gif, etc.) reader and conference documents (.txt, .doc, .ppt, .xls, etc.) editor with authorized software license, supports a variety of input methods
- ◆ Image file reader
- ◆ Desktop sharing: documents issued by this Congress Terminal can be displayed on large hall screens and other Congress Terminals to realize ad hoc reporting
- ◆ Delegate information and conference agenda display
- ◆ Take photo
- ◆ Delegate photo for attendance check and record facility on important conferences
- ◆ Internet access: related information is available through the Internet or the LAN during the meeting
- Ingenious video conversation function: video conversation between any two Paperless Multimedia Congress Terminals within the system, or realizing remote video conference through video server
- Multiform video service:
  - ◆ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Paperless Multimedia Congress Terminals
  - ◆ Multiple channel VOD (up to 10 channels with 1920×1080 resolution)
  - ◆ Video display function:
    - The large hall screen video can be displayed on the Congress Terminals through video encoder and video server (HDMI, SDI, VGA, CVBS, DVI, etc.)
    - Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
    - Video file playback either from Paperless Multimedia Congress Terminal or from SD card
- Conference service:
  - ◆ Short messages reader and editor
  - ◆ Call service, call secretary
- Based on TAIDEN originated MCA-STREAM digital audio technology
- Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting "PnP" (plug and play)
- Microphone array technology
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- Flush-mounted and electric lifting
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Facilities in stand-alone operation:
  - ◆ Set the number of delegates permitted to speak at the same time
  - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - "OPEN" mode, microphone On/Off icon with request-to-speak registration (AUTO)
    - "OVERRIDE" mode, microphone On/Off icon control with override of the active microphones (FIFO)
    - "VOICE" mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "APPLY" mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off icon to talk
  - ◆ Key press sign-in
  - ◆ Voting function (Yes/No/Abstain)
  - ◆ Simultaneous interpretation
- Multiform voting in combination with the corresponding software modules
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)
- Getting authorized from file server, the following meeting control functions will be provided:
  - ◆ Microphone control
  - ◆ Voting control
  - ◆ Desktop sharing control

### Controls and Indicators

- Graphic 14" LCD touch panel for interactive functions
- Uni-directional electret condenser microphone with two-color illuminated ring
- Channel select icons
- Headphones volume up and down icons
- Microphone On/Off icon

### Interconnections

- Ø 3.5 mm stereo headphone jack with volume control
- SD card slot for extended storage and system upgrade
- Two Gigabit network ports for "daisy chain" connection
- One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)

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## Technical Specifications

### Electrical

Max. consumption

..... 17 W (electric lifting)

..... 14 W (static)

### LCD

Type..... True color TFT LCD

Dimension..... 14 inches, 16:9

Resolution..... 1920×1080

Display color..... 2<sup>18</sup>(18 bit)

Contrast..... 700:1

### Headphone connection

Frequency response..... 30 Hz to 20 kHz

Earphone load impedance..... >16 Ohm

Earphone output..... 13 mW

### Microphone

Transducer..... Electret-condenser

Polar pattern..... Uni-directional

Operating voltage..... 5 VDC

Sensitivity..... -46 dBV/Pa

Frequency response..... 50 Hz to 20 kHz

Input impedance..... 2 kOhm

Directivity 0°/180°..... > 20 dB (1 kHz)

Equivalent noise..... 20 dBA (SPL)

Maximum sound pressure level..... 125 dB (THD<3%)

### Interface data

Connector..... Ø 3.5 mm stereo jack for headphone

### Mechanical

Mounting..... Flush-mounting

Dimensions (h × w × d) (w/o microphone)..... 232 × 349 × 109 mm

Weight (incl. microphone)..... 2.6 kg

Color..... Black (PANTONE 419 C)

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## Ordering Information

HCS-8368NAD/FM\_B/50... The G3 Paperless Multimedia Congress Terminal (flush-mounting delegate unit, microphone array, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs, paperless conference functions, video conversation, video display, multiple channel VOD and broadcasting, conference service, internet access, electric lifting, black)



## HCS-8368SD/50

### The G3 Paperless Multimedia Congress Terminal



#### Features

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable
- Equipped with a 14" LCD touch panel (1920×1080)
- Capacitive touch panel supporting multi-touch, improves operation experience
- 8-megapixel camera with flashlight, supports voting with photo
- “Closed Loop - Daisy Chain” connection topology
- Based on TAIDEN originated MCA-STREAM (Multi\_Channel\_Audio STREAM) digital processing and transmitting technologies
- 64 CHs×2 interpretation with independent volume control. Two delegates may share one terminal thus cutting the facility cost by half
- Transmitting up to 64 CHs high quality digital audio signals
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Excellent immunity to RF interferences from mobile phones
- Supporting “PnP” (plug and play)
- DC or PoE power supply

The stylish and ergonomically designed Paperless Multimedia Congress Terminal is equipped with a 14" high-resolution (1920×1080) LCD touch panel and an integrated 8 megapixel camera. It realizes versatile functions, e.g. speech, vote, simultaneous interpretation, sign-in, video display, short message, etc.

Loudspeaker with superior acoustics with minimal feedback for enhanced intelligibility.

#### Functions

- Compliant to ISO 22259
- Globally unique innovative embedded system-based Paperless Multimedia Congress Terminal, based on TAIDEN independent intellectual property mMediaCongress™ platform, never subject to viral infection, hacker-proof, safe and reliable
- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, all audio and video signals are transmitted via a Cat.5e/Cat.6 network cable
- Equipped with a 14" LCD (1920×1080), capacitive touch panel and an integrated 8 megapixel camera
- “Closed Loop - Daisy Chain” connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units in the system
- Supports 48 kHz audio sampling, and all 64 channels perfectly reproducing audio frequencies between 30 Hz and 20 kHz
- Video display
- Short messages reader
- Based on TAIDEN originated MCA-STREAM digital audio technology
- Adopted fully digital audio transmitting technology between the congress units, and between the congress units and the main units
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Automatic recovery facility, supporting “PnP” (plug and play)
- Mini-microphone, with foam windshield
- Built-in Hi-Fi loudspeaker, minimal feedback, mutes automatically when microphone is active
- Excellent immunity to RF interferences from mobile phones and comparable devices
- Supports up to 64 (1+63) CHs simultaneous interpretation
- 64 CHs×2 interpretation with volume control. Two delegates may share one unit thus cutting the cost by half (earphone needed)
- Optional printed nameplate (297×109 mm)
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Facilities in stand-alone operation:
  - ◆ Set the number of delegates permitted to speak at the same time

- ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
  - “OPEN” mode, microphone On/Off icon with request-to-speak registration (AUTO)
  - “OVERRIDE” mode, microphone On/Off icon control with override of the active microphones (FIFO)
  - “VOICE” mode, acoustic active sensitivity and automatic switch-off time adjustable continuously, built-in “flash-on” technology, immediate microphone activation on speaking
  - “APPLY” mode, delegate applies to speak by pressing microphone On/Off icon, delegate only speaks when operator or chairman approved his application
  - “PTT” mode, press microphone On/Off icon to talk
- ◆ Key press sign-in
- ◆ Voting function (Yes/No/Abstain)
- ◆ Simultaneous interpretation
- Multifunction voting in combination with the corresponding software modules
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Set any delegate unit to be VIP unit
  - ◆ Up to 32 units can be set as VIP in one system via application software
  - ◆ VIP unit can be activated as long as the total of active microphones is not beyond 6 (incl. chairman/delegate/VIP unit)

## Controls and Indicators

- Graphic 14" LCD touch panel for interactive functions
- Uni-directional electret condenser microphone with two-color illuminated ring
- Channel select icons
- Headphones volume up and down icons
- Microphone On/Off icon

## Interconnections

- 2 × Ø 3.5 mm stereo headphone jack with volume control
- SD card slot for extended storage and system upgrade
- DC power supply:
  - ◆ Two Gigabit network ports for “daisy chain” connection
  - ◆ One DC slot for connecting to 2-meter power branch cable (CBL4PT-02A)
- PoE: the Gigabit network port nearby the microphone supports PoE

## Technical Specifications

### Electrical

Max. consumption.....14 W

### LCD

Type.....True color TFT LCD  
 Dimension.....14 inches, 16:9  
 Resolution.....1920×1080  
 Display color.....2<sup>18</sup>(18 bit)  
 Contrast.....700:1

### Headphone connection

Frequency response.....30 Hz to 20 kHz  
 Earphone load impedance.....>16 Ohm  
 Earphone output.....13 mW

### Microphone

Transducer.....Electret-condenser  
 Polar pattern.....Uni-directional  
 Operating voltage.....5 VDC  
 Sensitivity.....-46 dBV/Pa  
 Frequency response.....50 Hz to 20 kHz  
 Input impedance.....2 kOhm  
 Directivity 0°/180°.....> 20 dB (1 kHz)  
 Equivalent noise.....20 dBA (SPL)  
 Maximum sound pressure level.....125 dB (THD<3%)

### Interface data

Connector.....2 × Ø 3.5 mm stereo jack for headphone

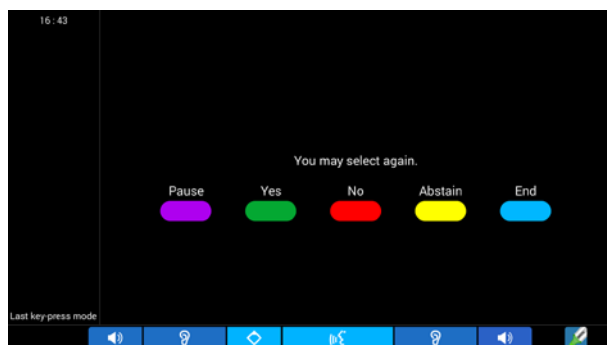
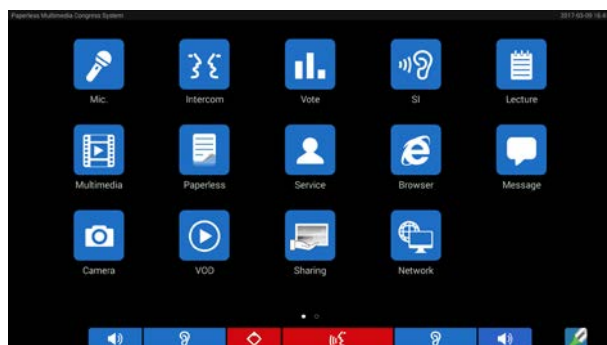
### Mechanical

Mounting.....Tabletop  
 Dimensions (h × w × d) (w/o microphone).....210 × 349 × 122 mm  
 Weight (incl. microphone).....2.1 kg  
 Color.....Black (PANTONE 419 C)

## Ordering Information

HCS-8368SD\_B/50...The G3 Paperless Multimedia Congress Terminal (delegate unit, 14" 1920×1080 LCD, capacitive touch panel, camera with 8 megapixel, speech, voting, 64 CHs×2, video display, printed nameplate, support PoE, black)

## HCS-8368CSW Chairman Control Function Software Module



### Functions

Features all delegate functions, additionally:

- Activation at any time provided that the number of active microphones in the system is less than 6
- Priority button to switch off or mute the delegate microphones (except VIP units) according to the presetting
- Approval/denial of speaking request(s) without PC
- Launch of parliamentary voting (Yes/No/Abstain) session without PC

### Ordering Information

HCS-8368CSW.....Chairman Control Function Software Module

## HCS-8368COVER/50 Protect Cover



### Technical Specifications

#### Mechanical

Dimensions (h x w x d).....4,5 x 374 x 266 mm  
Weight.....162 g  
Color.....Black (PANTONE 419 C)

### Ordering Information

HCS-8368COVER/50.....Protect cover (for HCS-8368/FM/50)

## HCS-8360FK/50 Contactless IC Card & Fingerprint Identification Module



### Features

- Connecting to HCS-8368/50 series congress terminal via USB port to realize contactless IC Card sign-in and fingerprint sign-in

### Technical Specifications

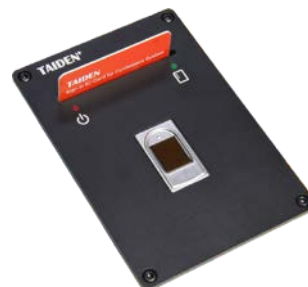
#### Mechanical

Mounting.....Tabletop  
 Dimensions (h x w x d) .....66 x 84 x 121 mm  
 Weight.....0.17 kg  
 Color.....Silver (PANTONE 401 C)

### Ordering Information

HCS-8360FK/50.....Contactless IC Card & Fingerprint Identification Module (tabletop, for HCS-8368/50 series congress terminal, silver)

## HCS-8360FK/FM/50 Contactless IC Card & Fingerprint Identification Module



### Features

- Connecting to HCS-8368/50 series congress terminal via USB port to realize contactless IC Card sign-in and fingerprint sign-in

### Technical Specifications

#### Mechanical

Mounting.....Flush-mounting  
 Dimensions (h x w x d) .....73 x 80 x 115 mm  
 Weight.....0.17 kg  
 Color.....Black (PANTONE 419 C)

### Ordering Information

HCS-8360FK/FM/50.....Contactless IC Card & Fingerprint Identification Module (flush-mounting, for HCS-8368/50 series congress terminal, black)

## HCS-8336 SDI Monitor for Interpreter



### Features

- Stylish and ergonomic design
- Compliant to ISO 22259
- Perfect display solution for interpreter booth
- “Closed Loop - Daisy Chain” connection topology
- Equipped with a 10" TFT LCD, 1280×800 high-resolution
- HD monitor with SDI signal transmission
- Video source switchable by interpreter
- Supporting SDI high definition digital video display
- With video format converter/processor, more video signal (HDMI, VGA, CVBS, DVI, etc.) can be supported
- Transmitting video signal on a coaxial-cable, latency < 30 us
- Optional printed nameplate
- Call service

### Controls and Indicators

- Graphic 10" TFT LCD
- Five voting buttons with indicators

### Interconnections

- SDI input
- SDI output
- 1.5 m cable with 6P-DIN plug
- 0.6 m cable with 6P-DIN socket

### Technical Specifications

#### Electrical

Max. consumption..... 8 W

#### LCD

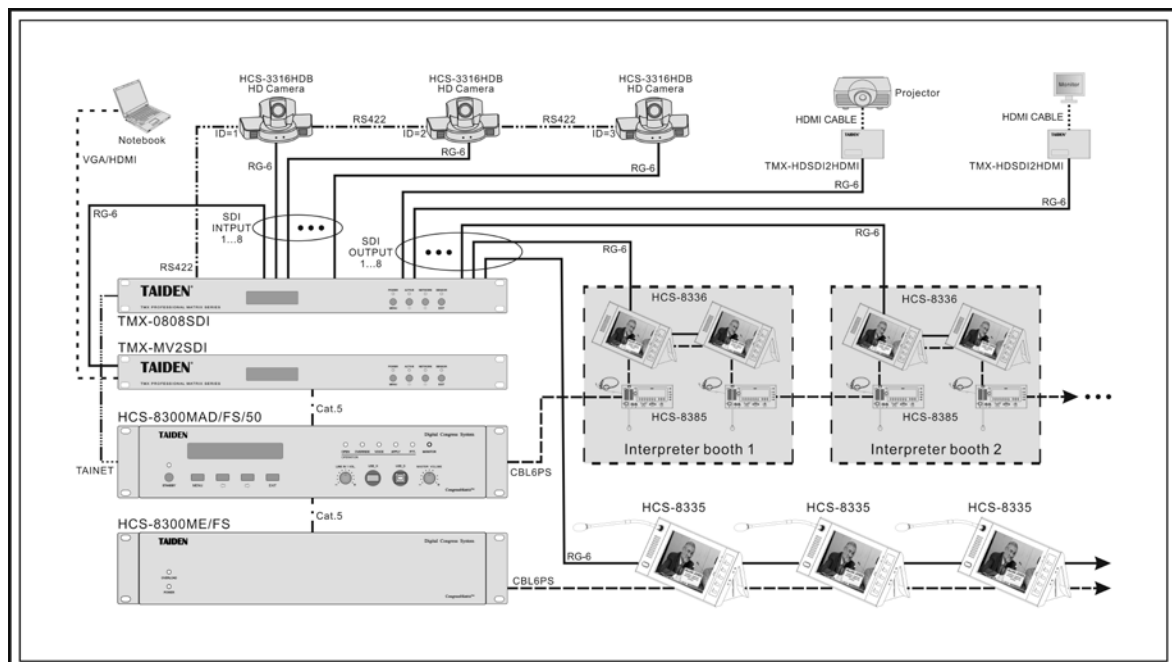
Type..... True color TFT LCD  
 Dimension..... 10 inches, 16:10  
 Resolution..... 1280×800  
 Display color..... 2<sup>18</sup> (18 bit)  
 Contrast..... 500:1

#### Mechanical

Mounting..... Tabletop/Flush-mounting  
 Dimensions (h x w x d) (w/o stem microphone)  
 ..... 155 x 361 x 122 mm  
 Weight (incl. stem microphone)..... 2.8 kg  
 Color..... Silver-gray panel (PANTONE Cool Gray 7 C)  
 ..... + black base (PANTONE 419 C)

### Ordering Information

HCS-8336..... SDI Monitor for Interpreter (10" 1280×800 LCD, HD video display, printed nameplate, silver-gray panel + black base)





# HCS-8385HDMI Video Converter



## Features

- Video input: SDI interface, supporting resolutions from 720p to 1080p
- Video output: HDMI type A connector x 2 or 4, HDMI 1.4 compliant, compatible with HDCP
- Connection to HCS-8385/80 TAIDEN new generation simultaneous interpreter unit through cable with mini 6pin DIN plug on each end

## Technical Specifications

## Video Input

Signal type.....SDI  
Connector.....BNC  
Resolutions.....720p50, 720p60  
1080i50, 1080i60  
1080p25, 1080p30, 1080p50, 1080p60

## Video Output

Signal type.....HDMI  
Connectors.....2 or 4 × female HDMI type A connector  
Resolutions.....Up to 1080p60

## General specs

Power supply.....9 V-12 V DC or from HCS-8385/80  
Temperature.....Operating: 0 °C to + 50 °C;  
storage: -20 °C to + 70 °C  
Humidity.....Storage and operating: 10% to 90%  
Dimensions h x w x d (mm).....40 x 150 x 100  
Color.....Gray (PANTONE 425 C)  
Weight.....0.4 kg

## Ordering Information

HCS-8385HDMI/02.....Video Converter (2 HDMI output,  
HCS-8385/80 needed)

HCS-8385HDMI/04 ..... Video Converter (4 HDMI output,  
HCS-8385/80 needed)

## HCS-8300MAD/FS/50 Congress Main Unit



### Features

- Based on ingenious CongressMatrix™ technology, integrated n×8 audio matrix processor
- Integrated 8 channels group output function, easy to combine/split conference rooms
- Connectable to multi channel audio input or output devices for versatile expansion of the system
- High system reliability guaranteed by “Closed Loop - Daisy Chain” connection topology
- Adopted fully digital audio transmitting technology between the main units and congress units
- Perfect sound quality on all 64 simultaneous interpretation channels: frequency response 30 Hz to 20 kHz
- Supports Dante, an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization
- Equipped with optical fiber interface to combine two widely separated conference rooms to form one unique coherent system
- Dual connection backup via optical fiber and Cat.5 cable between Congress Main Unit and Congress Extension Main Unit
- Connection facility for an additional condenser or dynamic microphone, expanding user’s application spectrum
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance
- TCP/IP communication protocol in PC control
- Remote control, remote diagnosis and remote update
- Voting facilities without PC intervention
- Built-in multi-channel intercom facility
- Plug and play for all units
- Excellent immunity to RF interferences from mobile phones and comparable devices
- System power controllable by central control system

The Congress Main Unit includes features for controlling delegate microphones, distributing simultaneous interpretation and conducting voting sessions, without an operator.

In combination with a PC, the Congress Main Unit brings greater sophistication to conference control. Users are able to access an extensive range of software modules, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference. In the event of PC failure, the Congress Main Unit will revert to its stand-alone operation mode, enabling the conference to proceed.

The Congress Main Unit also provides power supply to the Congress units (except paperless multimedia congress terminals).

### Functions

- Compliant to ISO 22259
- Based on ingenious CongressMatrix™ technology, integrated n×8 audio matrix processor (n is the number of microphones connected in the system)
  - ◆ 8 discrete audio outputs, including:
    - Line 1 output: 15 band graphical EQ + 8 band parameterized EQ + DRC (dynamic range compressor)
    - Line 2 output: 5 band graphical EQ + DRC (dynamic range compressor)
    - Group output 1~6: 5 band graphical EQ + DRC (dynamic range compressor) + time delay (maximum delay time for 32 kHz sampling rate is 1.5 s, maximum delay time for 48 kHz sampling rate is 1 s)
  - ◆ Connectable to a multi channel independent PA system (up to 8 channels). Each channel is supplied with its proper audio signal. The audio signal of each microphone can be routed to any speaker at any ratio, thus “N-1” function can be realized easily: when the microphone in one area is turned on, its audio signal is only routed to all areas except to its own, avoiding acoustic feedback (howl) when audio transmission gain is increased
  - ◆ 8 channels group output function
  - ◆ Supports combining/separating meeting rooms by split/merge function
  - ◆ Recording by group function
  - ◆ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator’s voice to achieve perfect speech pickup any time
  - ◆ Displays audio signal spectrum to determine howling frequency which can be suppressed by adjusting EQ parameters
  - ◆ 2 audio line in (analog, digital, Dante) or 1 audio line in (analog, Dante) + 1 microphone input, gain and EQ for each input adjustable separately. +24 V phantom power supply at microphone input, condenser microphone can be connected directly
  - ◆ Connectable to multi channel audio input or output devices for versatile expansion of the system

- “Closed Loop - Daisy Chain” connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Embedded high performance DSP for audio signal processing, supporting 48 kHz and 32 kHz audio sampling rate. All 64 channels feature perfect sound quality with a frequency response of 30 Hz to 20 kHz
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technology
- Adopted fully digital audio transmitting technology between the main units and congress units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Set any delegate unit to be VIP unit, VIP unit can be activated as long as the total of active microphones is not beyond 6
- Built-in multi-channel intercom facility
- Connection facility for additional condenser or dynamic microphones, expanding user’s application spectrum (HCS-8300MI series audio input interface required)
- If additional contribution units are connected for system expansion, additional Congress Extension Main Units HCS-8300ME or HCS-8300ME/FS are required:
  - ◆ 4096 discussion or voting units
  - ◆ 378 interpreter units (with maximum 63 booths, each booth with maximum 6 interpreter units)
  - ◆ Any quantity of channel selectors
- With the 8 channel digital/analog audio output device (several units cascable), multi-channel digital/analog audio signals are available as output signals for infrared language distribution system or recording
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Implemented features in stand-alone mode:
  - ◆ Set the number (1/2/3/4) of delegates permitted to speak at the same time
  - ◆ Set-up of speaking time limitation (1~240 minutes)
  - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - “OPEN” mode, microphone On/Off button with request-to-speak registration (AUTO)
    - “OVERRIDE” mode, microphone On/Off button control with override of the active microphones (FIFO)
    - “VOICE” mode, acoustic active sensitivity and automatic switch-off time can be adjusted continuously, built-in “flash-on” technology, immediate microphone activation on speaking
    - “APPLY” mode, delegate applies to speak by pressing microphone On/Off button, delegate can speak only when operator or chairman approved his application
    - “PTT” mode, press microphone On/Off button to talk
  - ◆ Parliamentary voting (YES/NO/ABSTAIN)
  - ◆ 64 (1+63) channels simultaneous interpretation function. Cooperates with channel selector or infrared language distribution system enabling a larger audience to follow the conference
- In combination with the corresponding software modules, more functions can be implemented:
  - ◆ Centralized microphone management
  - ◆ Multiform voting:
    - For/Against
    - Parliamentary: YES/NO/ABSTAIN
    - Questionnaire: 1/2/3/4/5
    - Audience response: --/0/+/>++
    - Parliamentary (NPPV): Yes/No/ABSTAIN/NPPV
    - Appraisal:
      - ◇ Satisfied (four keys voting: perfectly satisfied/satisfied/basically satisfied/unsatisfied) (three keys voting: satisfied/basically satisfied/unsatisfied) (two keys voting: satisfied/unsatisfied)
      - ◇ Qualified (four/three/two keys voting)
      - ◇ Competent (four/three/two keys voting)
  - ◆ Several sign-in modes: entrance sign-in/seat sign-in
  - ◆ Depending on the purchased HCS-8300 software modules, user gains access to additional conference control & management functions
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control, remote diagnosis and remote update
- Supports Dante, an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization
- Dual connection backup between Congress Main Unit and Congress Extension Main Unit via optical fiber and Cat.5 cable
- Hot spare dual server structure: another Congress Main Unit is set up as backup Congress Main Unit and connected to the system and takes over automatically if the main Congress Main Unit fails
- Multi-room configuration: Congress Main Unit(s) can be used as Congress Extension Main Unit(s) to carry out multi-room configuration flexibly. Multiple Congress Main Unit configuration allows all connected multiple rooms to be operated either as one unique system or as independent systems
- Integrated real-time clock displays time on the LCD of the interpreter unit to inform interpreter to stay on schedule
- Fully compatible with TAIDEN HCS-4100/50 Fully Digital Congress System: HCS-4100/50 series Congress Units can be connected to the HCS-8300 system (exclusive functions only available with HCS-8300 series contribution units)
- Built-in unit detection facilities: detect the unit’s microphone, speaker, LEDs and voting keys prior to start of the meeting
- Automatic recovery facility, supporting “PnP” (plug and play)
- If the PC is broken down, Congress Main Unit enters the stand-alone state automatically, carrying out basic conference control, ensuring the consistency of the conference
- System power controllable by central control system

## Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi-language menu
- Four buttons for configuration
- Power switch
- Standby switch with indicator
- Operation mode indicators
- LINE IN electric level adjust knob
- Congress Unit floor audio channel master volume adjust knob

## Interconnections

- Multiple audio in/out interfaces:
  - ◆ One balanced XLR-F for microphone input or audio LINE IN
  - ◆ Two symmetrical RCA input interfaces for audio LINE IN
  - ◆ One balanced XLR-M for audio LINE OUT
  - ◆ Two symmetrical RCA output interfaces for audio LINE OUT
  - ◆ 6 channels group output on 3-pin 3.81 mm Phoenix connectors
  - ◆ One headphone output socket (Ø 3.5 mm) for monitoring channel languages
- 2 × RS232 port for connection to central control system and system diagnosis each
- AES/EBU digital input/output
- Duplex SC single-mode optical fiber interface to combine two widely separated conference rooms and to operate as one unique coherent system
- Dante interface to connect to peripheral digital devices without losing any sound quality
- 1 × RJ45 standard socket for connection to Ethernet interface (LAN)
- 1 × RJ45 standard socket (output) for connection with a Congress Extension Main Unit (EXTENSION)
- 2 × outlet (6P-DIN) trunk-line cable outlet
- Video switcher interface
- Emergency signal interface: for connection to public emergency system. Pauses the conference automatically if the system is switched on and sends alarm signals to Congress Units
- Mixer interface: for connection to HCS-8301MD Digital Audio Mixer for Conference
- 2 × USB interface at front panel to upgrade system and to save system parameters.

## Max. audio inputs

LINE IN 1.....+10 dBu, BAL.  
 LINE IN 2.....+10 dBu, UNBAL.  
 AES/EBU IN.....1 FFS

## Max. audio outputs

LINE OUT 1.....+20 dBu, BAL.  
 LINE OUT 2.....+20 dBu, UNBAL.  
 GROUP OUT (1...6).....+20 dBu, BAL.  
 AES/EBU OUT.....1 FFS

## Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
 Dimensions (h × w × d)  
 For table use, with feet.....99 × 430 × 325 mm  
 For 19" rack use, with brackets.....89 × 478 × 350 mm  
 Weight.....7.8 kg  
 Color.....White (PANTONE 420 C)

## Ordering Information

HCS-8300MAD/FS/50.....Fully Digital Congress System Main Unit (discussion, voting, 64 CHs, single-mode optical fiber interface, AES/EBU digital input/output, Dante interface, Mixer interface, Mic. group output)

## Technical Specifications

### Electrical

Frequency response.....30 Hz to 20 kHz  
 SNR.....≥90 dBA  
 Dynamic range.....≥90 dB  
 Isolation.....≥85 dB  
 THD.....≤0.05%  
 Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz  
 Power consumption.....200 W  
 Total supply power.....120 W  
 RS232 connection.....2 × 9-pole Sub-D female socket

## HCS-8300MB/50 Congress Main Unit



### Features

- Based on ingenious CongressMatrix™ technology, integrated nx8 audio matrix processor
- Integrated 8 channels group output function, easy to combine/split conference rooms
- Connectable to multi channel audio input or output devices for versatile expansion of the system
- High system reliability guaranteed by “Closed Loop - Daisy Chain” connection topology
- Adopted fully digital audio transmitting technology between the main units and congress units
- Perfect sound quality on all 64 simultaneous interpretation channels: frequency response 30 Hz to 20 kHz
- Dual connection backup via optical fiber and Cat.5 cable between Congress Main Unit and Congress Extension Main Unit
- Connection facility for an additional condenser or dynamic microphone, expanding user's application spectrum
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance
- TCP/IP communication protocol in PC control
- Remote control, remote diagnosis and remote update
- Voting facilities without PC intervention
- Built-in multi-channel intercom facility
- Plug and play for all units
- Excellent immunity to RF interferences from mobile phones and comparable devices
- System power controllable by central control system

The Conference Main Unit includes features for controlling delegate microphones, distributing simultaneous interpretation and conducting voting sessions, without an operator.

In combination with a PC, the Congress Main Unit brings greater sophistication to conference control. Users are able to access an extensive range of software modules, each with a specific function in controlling and monitoring a conference, greatly expanding the capacity to manage a conference. In the event of PC failure, the Congress Main Unit will revert to its stand-alone operation mode, enabling the conference to proceed.

The Congress Main Unit also provides power supply to the Congress units (except paperless multimedia congress terminals).

### Functions

- Compliant to ISO 22259
- Based on ingenious CongressMatrix™ technology, integrated nx8 audio matrix processor (n is the number of microphones connected in the system)
  - ♦ 8 discrete audio outputs, including:
    - Line 1 output: 15 band graphical EQ + 8 band parameterized EQ + DRC (dynamic range compressor)
    - Line 2 output: 5 band graphical EQ + DRC (dynamic range compressor)
    - Group output 1~6: 5 band graphical EQ + DRC (dynamic range compressor) + time delay (Maximum delay time for 32 kHz sampling rate is 1.5 s, maximum delay time for 48 kHz sampling rate is 1 s.)
  - ♦ Connectable to a multi channel independent PA system (up to 8 channels). Each channel is supplied with its proper audio signal. The audio signal of each microphone can be routed to any speaker at any ratio, thus “N-1” function can be realized easily: when the microphone in one area is turned on, its audio signal is only routed to all areas except to its own, avoiding acoustic feedback (howl) when audio transmission gain is increased
  - ♦ 8 channels group output function
  - ♦ Supports combining/separating meeting rooms by split/merge function
  - ♦ Recording by group function
  - ♦ Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
  - ♦ Displays audio signal spectrum to determine howling frequency which can be suppressed by adjusting EQ parameters
  - ♦ 2 audio line in or 1 audio line in + 1 microphone input, gain and EQ for each input adjustable separately. +24 V phantom power supply at microphone input, condenser microphone can be connected directly
  - ♦ Connectable to multi channel audio input or output devices for versatile expansion of the system
- “Closed Loop - Daisy Chain” connection topology for a high operational system reliability: breakdown or replacement of a Congress Unit and connection failure of a cable will not influence other Congress Units
- Embedded high performance DSP for audio signal processing, supporting 48 kHz and 32 kHz audio sampling rate. All 64 channels feature perfect sound quality with a frequency response of 30 Hz to 20 kHz
- Based on TAIDEN originated MCA-STREAM digital audio processing and transmitting technology
- Adopted fully digital audio transmitting technology between the main units and congress units
- Every delegate unit is assigned an individual ID for convenient setup and to avoid double ID allocation forever
- Set any delegate unit to be VIP unit, VIP unit can be activated as long as the total of active microphones is not beyond 6
- Built-in multi-channel intercom facility



- Connection facility for additional condenser or dynamic microphones, expanding user's application spectrum (HCS-8300MI series audio input interface required)
- If additional contribution units are connected for system expansion, additional Congress Extension Main Units HCS-8300ME or HCS-8300ME/FS are required:
  - ◆ 4096 discussion or voting units
  - ◆ 378 interpreter units (with maximum 63 booths, each booth with maximum 6 interpreter units)
  - ◆ Any quantity of channel selectors
- With the 8 channel digital/analog audio output device (several units cascable), multi-channel digital/analog audio signals are available as output signals for infrared language distribution system or recording
- Automatic video tracking implementation when cooperating with cameras and video switcher unit; preset positions on PC
- Implemented features in stand-alone mode:
  - ◆ Set the number (1/2/3/4) of delegates permitted to speak at the same time
  - ◆ Set-up of speaking time limitation (1~240 minutes)
  - ◆ Speak mode: OPEN/OVERRIDE/VOICE/APPLY/PTT
    - "OPEN" mode, microphone On/Off button with request-to-speak registration (AUTO)
    - "OVERRIDE" mode, microphone On/Off button control with override of the active microphones (FIFO)
    - "VOICE" mode, acoustic active sensitivity and automatic switch-off time can be adjusted continuously, built-in "flash-on" technology, immediate microphone activation on speaking
    - "APPLY" mode, delegate applies to speak by pressing microphone On/Off button, delegate can speak only when operator or chairman approved his application
    - "PTT" mode, press microphone On/Off button to talk
  - ◆ Parliamentary voting (YES/NO/ABSTAIN)
  - ◆ 64 (1+63) channels simultaneous interpretation function. Cooperates with channel selector or infrared language distribution system enabling a larger audience to follow the conference
- In combination with the corresponding software modules, more functions can be implemented:
  - ◆ Centralized microphone management
  - ◆ Multiform voting:
    - For/Against
    - Parliamentary: YES/NO/ABSTAIN
    - Questionnaire: 1/2/3/4/5
    - Audience response: --/0/+/>++
    - Parliamentary (NPPV): Yes/No/ABSTAIN/NPPV
    - Appraisal:
      - ◇ Satisfied (four keys voting:  
perfectly satisfied/satisfied/basically satisfied/unsatisfied)  
(three keys voting:  
satisfied/basically satisfied/unsatisfied)  
(two keys voting: satisfied/unsatisfied)
      - ◇ Qualified (four/three/two keys voting)
      - ◇ Competent (four/three/two keys voting)
  - ◆ Several sign-in modes: entrance sign-in/seat sign-in
  - ◆ Depending on the purchased HCS-8300 software modules, user gains access to additional conference control & management functions
- Advanced TCP/IP communication protocol in PC controlled mode, easy to carry out remote control, remote diagnosis and remote update
- Dual connection backup between Congress Main Unit and Congress Extension Main Unit via optical fiber and Cat.5 cable
- Hot spare dual server structure: another Congress Main Unit is set up as backup Congress Main Unit and connected to the system and takes over automatically if the main Congress Main Unit fails
- Multi-room configuration: Congress Main Unit(s) can be used as Congress Extension Main Unit(s) to carry out multi-room configuration flexibly. Multiple Congress Main Unit configuration allows all connected multiple rooms to be operated either as one unique system or as independent systems
- Integrated real-time clock displays time on the LCD of the interpreter unit to inform interpreter to stay on schedule
- Fully compatible with TAIDEN HCS-4100/50 Fully Digital Congress System: HCS-4100/50 series Congress Units can be connected to the HCS-8300 system (exclusive functions only available with HCS-8300 series contribution units)
- Built-in unit detection facilities: detect the unit's microphone, speaker, LEDs and voting keys prior to start of the meeting
- Automatic recovery facility, supporting "PnP" (plug and play)
- If the PC is broken down, Congress Main Unit enters the stand-alone state automatically, carrying out basic conference control, ensuring the consistency of the conference
- System power controllable by central control system

### Controls and Indicators

- Graphic LCD with back-lighting displays status and menu of the system configuration, supporting multi-language menu
- Four buttons for configuration
- Power switch
- Standby switch with indicator
- Operation mode indicators
- LINE IN electric level adjust knob
- Congress Unit floor audio channel master volume adjust knob

### Interconnections

- Multiple audio in/out interfaces:
  - ◆ One balanced XLR-F for microphone input or audio LINE IN
  - ◆ Two symmetrical RCA input interfaces for audio LINE IN
  - ◆ One balanced XLR-M for audio LINE OUT
  - ◆ Two symmetrical RCA output interfaces for audio LINE OUT
  - ◆ 6 channels group output on 3-pin 3.81 mm Phoenix connectors
  - ◆ One headphone output socket (Ø 3.5 mm) for monitoring channel languages
- 2 × RS232 port for connection to central control system and system diagnosis each
- 1 × RJ45 standard socket for connection to Ethernet interface (LAN)

- 1 × RJ45 standard socket (output) for connection with a Congress Extension Main Unit (EXTENSION)
- 2 × outlet (6P-DIN) trunk-line cable outlet
- Video switcher interface
- Emergency signal interface: for connection to public emergency system. Pauses the conference automatically if the system is switched on and sends alarm signals to Congress Units
- 2 × USB interface at front panel to upgrade system and to save system parameters.

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## Technical Specifications

### Electrical

Frequency response.....30 Hz to 20 kHz  
 SNR.....≥90 dBA  
 Dynamic range.....≥90 dB  
 Isolation.....≥85 dB  
 THD.....≤0.05%  
 Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz  
 Power consumption.....200 W  
 Total supply power.....120 W  
 RS232 connection.....2 × 9-pole Sub-D female socket

### Max. audio inputs

LINE IN 1.....+10 dBu, BAL.  
 LINE IN 2.....+10 dBu, UNBAL.

### Max. audio outputs

LINE OUT 1.....+20 dBu, BAL.  
 LINE OUT 2.....+20 dBu, UNBAL.  
 GROUP OUT (1...6).....+20 dBu, BAL.

### Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
 Dimensions (h × w × d)  
     For table use, with feet.....99 × 430 × 325 mm  
     For 19" rack use, with brackets.....89 × 478 × 350 mm  
 Weight.....7.8 kg  
 Color.....White (PANTONE 420 C)

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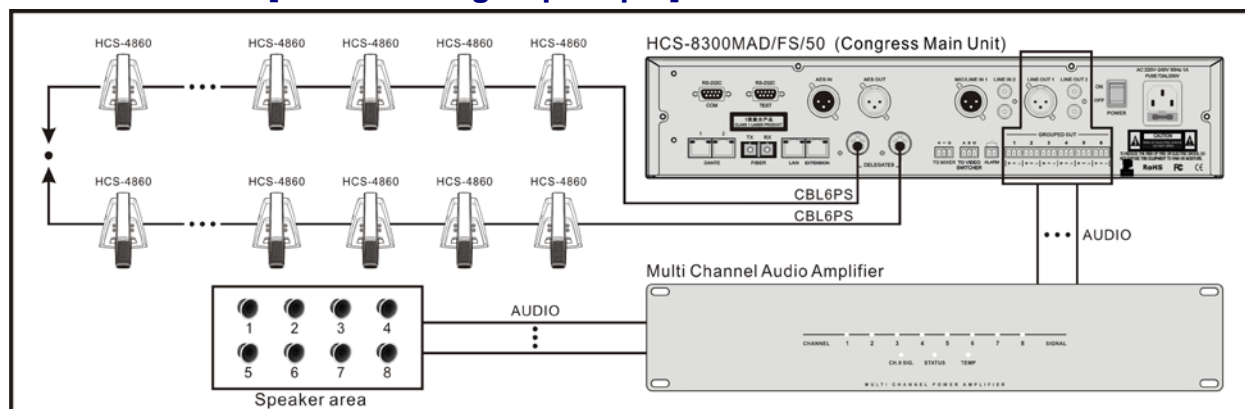
## Ordering Information

HCS-8300MB/50.....Fully Digital Congress System Main Unit  
 (discussion, voting, 64 CHs, Mic. group output)

## HCS-8300 and HCS-4100/50 Series Congress Main Units Function list

Type No.	Speech	Voting	Graphic LCD	64CHs SI	Mic. group output	Optical fiber interface	Dante interface	Mixer interface	AES/EBU interface
HCS-8300MAD/FS/50	√	√	√	√	√	√	√	√	√
HCS-8300MB/50	√	√	√	√	√				
HCS-4100MA/FS/52	√	√	√	√		√			
HCS-4100MB/52	√	√	√	√					
HCS-4100MC/52	√	√	√						

## System Connection [discussion+ group output]



## HCS-8300ME/FS Congress Extension Main Unit



The maximum capacity of HCS-8300M series CMU is 60 contribution units. If extra contribution units are needed, HCS-8300ME/FS or HCS-8300ME Congress Extension Main Unit(s) must be added. The outlet connectors of both are identical. Each HCS-8300ME/FS or HCS-8300ME has two EXTENSION IN interfaces used to connect HCS-8300M series CMU or a preceding Congress Extension Main Unit, and an EXTENSION OUT interface for the next Congress Extension Main Unit.

### Functions

- Compliant to ISO 22259 and CE
- Cooperates with HCS-8300M or HCS-4100M/52 series Congress Main Unit for system capacity extension
- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

### Interconnections

- 4 × (6P-DIN) trunk-line cable outlet
- 2 × RJ45 standard socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit
- 1 × RJ45 standard socket (output) for connection with the next Congress Extension Main Unit
- Equipped with two duplex SC single-mode optical fiber interfaces

### Technical Specifications

#### Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz  
Power consumption.....450 W

#### Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
Dimensions (h × w × d)  
For table use, with feet.....99 × 430 × 325 mm  
For 19" rack use, with brackets.....89 × 478 × 350 mm  
Weight.....10.0 kg  
Color.....White (PANTONE 420 C)

### Ordering Information

HCS-8300ME/FS.....Fully Digital Congress System Extension Main Unit (with 2 single-mode optical fiber interfaces, 4 congress unit outlets)

## HCS-8300ME Congress Extension Main Unit



The maximum capacity of HCS-8300M series CMU is 60 contribution units. If extra contribution units are needed, HCS-8300ME/FS or HCS-8300ME Congress Extension Main Unit(s) must be added. The outlet connectors of both are identical. Each HCS-8300ME/FS or HCS-8300ME has two EXTENSION IN interfaces used to connect HCS-8300M series CMU or a preceding Congress Extension Main Unit, and an EXTENSION OUT interface for the next Congress Extension Main Unit.

### Functions

- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Compliant to ISO 22259 and CE
- Cooperates with HCS-8300M or HCS-4100M/52 series Congress Main Unit for system capacity extension
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

### Interconnections

- 4 × 6P-DIN trunk-line cable outlet
- 2 × RJ45 standard socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit
- 1 × RJ45 standard socket (output) for connection with the next Congress Extension Main Unit

### Technical Specifications

#### Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz  
Power consumption.....450 W

#### Mechanical

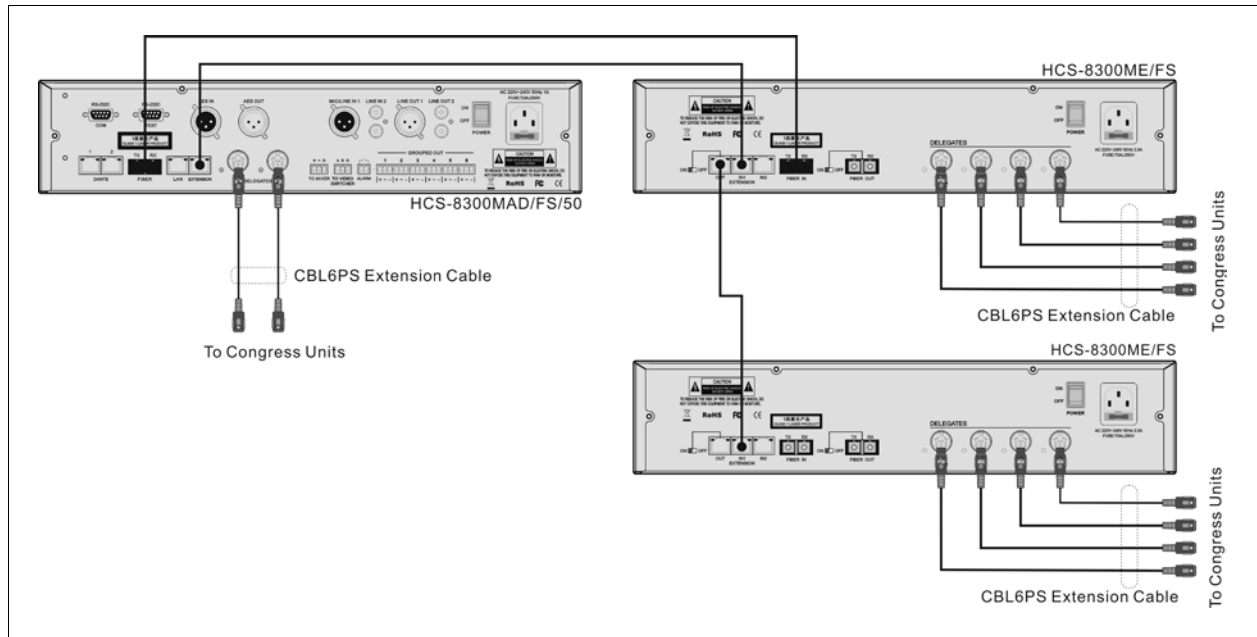
Mounting.....Tabletop or mounted in a 19" rack  
Dimensions (h × w × d)  
For table use, with feet.....99 × 430 × 325 mm  
For 19" rack use, with brackets.....89 × 478 × 350 mm  
Weight.....10.0 kg  
Color.....White (PANTONE 420 C)

### Ordering Information

HCS-8300ME...Fully Digital Congress System Extension Main Unit  
(4 congress unit outlets)



## System Connection



### Low power consumption design

All congress units of HCS-8300 and HCS-4100/50 series (except paperless multimedia congress terminals) are supplied by the main unit's 6P-DIN interface. Since the power capacity of the 6P-DIN interface is limited, it must be ensured during installation that the added up values of a) the total power consumption of all congress units connected in each path and b) the power loss in connection cables do in no case exceed the maximum possible value delivered by each 6P-DIN interface. Otherwise the system will not work properly or automatic protection will be triggered. Refer to the table 1 for the max. connection number of congress units.

**Note:**

- The total added up cable length from the main unit to the furthest congress unit shall not exceed 250 m.
- Any connection cable length should be less than 80 meters (incl. the cable between the main unit and the next congress unit and the cable between any two sequential congress units), otherwise it will affect the signal quality. In case the length exceeds 80 m, cable splitter HCS-4352T/50 is needed; and the length of an individual extension cable following HCS-4352T/50 must not exceed 70 meters.
- The extension cable between the main unit and the first congress unit is always carrying the maximum current, induced by the totality of the congress units connected to the dedicated socket. Due to Ohm's law the available supply voltage at the opposite end of this cable is lower than on the socket. This voltage drop is dependent on the cable length and the current. The number of overall connectable congress units to the main unit is therefore a function of the cable length and vice versa. However, when the cable is connected between the last two congress units, the influence is insignificant.

Table 1 Quick lookup table for the max. number of connected congress units

Type	Type No.	The extension cable length between the CMU(EMU) and the first Congress Unit connected to the socket					
		20 m	40 m	60 m	80 m	80 m + HCS-4352T/50 +70 m	80 m + HCS-4352T/50 + 70 m + HCS-4352T/50 + 70 m
Equipped with 256×64 LCD, speaker and microphone	HCS-4385U/50	14	12	11	9	6	4
Equipped with 256×32 LCD, speaker and microphone	HCS-4886 HCS-4887 HCS-48U7 HCS-48U8 HCS-48U9	16	13	12	11	8	5
	HCS-48U10 HCS-48U6						
Equipped with OLED and microphone	HCS-4338N/50 HCS-4860/54 HCS-4865/50 HCS-4866/50	22	19	17	15	9	6
	HCS-4888 HCS-4326/50						
Equipped with speaker and microphone, without 256×32 LCD	HCS-4888 HCS-4326/50						
Equipped with 256×32 LCD, without speaker nor microphone	HCS-4368/50	30	26	24	22	15	10
Equipped with microphone, without 256×32 LCD nor speaker	HCS-4325/50 HCS-4326/50	30	27	24	22	17	12
Without 256×32 LCD, speaker nor microphone	HCS-4368SDT/50	30	29	26	24	19	14
Equipped with 10" LCD	HCS-8336	6	6	5	4	-	-
HCS-4340/50 series Multi-function connector	HCS-4340A/50 HCS-4340DT/50	10	9	9	9	7	6
	HCS-4340B/50	9	8	8	8	6	5
	HCS-4340U/50	16	13	12	11	8	5

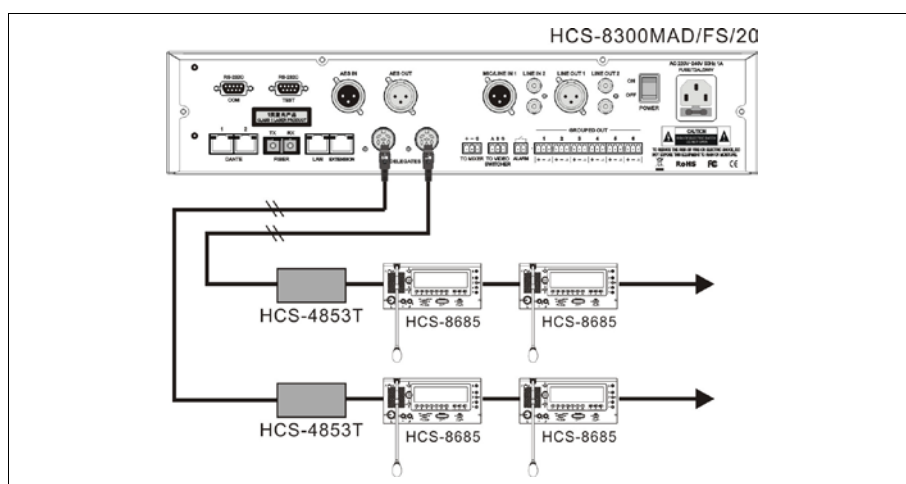
HCS-8685 interpreter unit is equipped with a 8P-DIN cable with a standard male connector. When connecting to the CMU or the EMU, you need to use HCS-4853T for switching, connect the 8P-DIN male connector of the first translation unit to HCS-4853T, and connect the 6P-DIN male connector of HCS-4853T to the output of the main unit. Detail information for the following table and diagram.

Table 2 Quick lookup table of HCS-8300M CMU/EMU load capability to HCS-8685 (each outlet)

	The extension cable length between the CMU(EMU) and the HCS-4853T			
	20 m	40 m	60 m	80 m
HCS-8685 speaker volume maximum	8	7	6	5
HCS-8685 speaker volume maximum (CMU/EMU power supply voltage dropped -10%)	6	5	4	4
HCS-8685 speaker volume minimum	13	11	9	8
HCS-8685 speaker volume minimum (CMU/EMU power supply voltage dropped -10%)	9	7	6	5

**Note:**

The load test connection diagram is as follows, it is recommended that select one output port of HCS-4853T to connect HCS-8685.



## HCS-8300MES Congress Extension Unit



### Functions

- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Compliant to ISO 22259 and CE
- Cooperates with HCS-8300M or HCS-4100M/52 series Congress Main Unit for system capacity extension
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

### Interconnections

- 3 × 6P-DIN trunk-line cable outlet, connection cable length should be less than 80 meters
- 1 × 6P-DIN socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit, connection cable length should be less than 80 meters
- 1 × 6P-DIN socket (output) for connection with the next HCS-8300MES, connection cable length should be less than 80 meters

### Technical Specifications

#### Electrical

Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz  
Power consumption.....150 W

#### Mechanical

Dimensions (h × w × d).....42 × 296 × 133 mm  
Weight.....1.5 kg  
Color.....Black (PANTONE 419 C)

### Ordering Information

HCS-8300MES.....Fully Digital Congress System Extension Unit  
(3 congress unit outlets)  
HCS-MES-RCF.....Rack Cabinet Frame (1 HCS-8600MES or  
HCS-8300MES Extension Unit can be  
installed)

## HCS-8300MCLS Loop switcher and Cabinet installation accessory



### Functions

- For "Closed Loop - Daisy Chain" connection
- Please set main unit LCD menu "Close Loop Setting -> HCS-8300MCLS AS Loop Switcher" as "Yes"
- Automatic judgment of the opening or closing of a loop
- Loop switcher open: open indicator on (Red)
- Loop switcher closed: close indicator on (Green)
- HCS-8300MCLS Loop Switcher is for connection between the CMU and the congress unit
- HCS-8300MCLS/F Loop Switcher is for connection between the primary and secondary CMU
- HCS-MCLS-RCF and HCS-MCLS-FC can be chosen

### Interconnections

- 1.5 m cable with 6P-DIN plug to connect to the primary CMU or EMU
- 0.6 m cable with 6P-DIN plug to connect to the secondary CMU or the congress unit

### Technical Specifications

#### Mechanical

Dimensions (h × w × d).....68 × 100 × 40 mm  
Weight.....347 g  
Color.....Black (PANTONE 419 C)

### Ordering Information

HCS-8300MCLS.....Loop switcher ("Closed Loop - Daisy Chain"  
connection between conference unit and  
the main unit)  
HCS-8300MCLS/F.....Loop switcher ("Closed Loop - Daisy Chain"  
connection between the primary  
conference main unit and the secondary  
conference main unit)  
HCS-MCLS-RCF.....Rack Cabinet Frame  
(4 HCS-8600MCLS or HCS-8300MCLS  
Loop switchers can be installed)  
HCS-MCLS-FC.....Frame Cover (for HCS-MCLS-RCF)



Table 2 Quick lookup table of HCS-8300MES load capability

Type	Type No.	The extension cable length between the HCS-8300MES and the first Congress Unit connected to the socket			
		20 m	40 m	60 m	80 m
Equipped with 256x64 LCD, speaker and microphone	HCS-4385U/50	10	9	8	7
Equipped with 256x32 LCD, speaker and microphone	HCS-4886 HCS-4887 HCS-48U7 HCS-48U8 HCS-48U9	12	11	10	9
	HCS-48U10 HCS-48U6				
Equipped with OLED and microphone	HCS-4338N/50 HCS-4860/54 HCS-4865/50 HCS-4866/50	18	16	14	12
	HCS-4326/50				
Equipped with 256x32 LCD, without speaker nor microphone	HCS-4368/50	24	22	20	18
Equipped with microphone, without 256x32 LCD nor speaker	HCS-4325/50 HCS-4326/50				
Without 256x32 LCD, speaker nor microphone	HCS-4368SDT/50				
Equipped with 10" LCD	HCS-8336	5	5	4	3
HCS-4340/50 series Multi-function connector	HCS-4340A/50 HCS-4340DT/50	9	8	8	8
	HCS-4340B/50	8	7	7	7
	HCS-4340U/50	12	11	10	9

## HCS-8300KMX2 Congress Gigabit Network Switcher



### Functions

- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology
- Sync power on/off with the Congress Main Unit
- Built-in PoE switch to choose way of power supply:
  - ON: connecting DELEGATE port to tabletop congress terminals or the Distributor HCS-8368T/50 for power supply and transmission of control data and multimedia data
  - OFF: DELEGATE port supporting daisy-chain connection to HCS-8368/50 Series Paperless Multimedia Congress Terminal with power supply via 3 2P aviation plugs

### Interconnections

- 1 × RJ45 standard port for connection with Ethernet switcher
- 5 × RJ45 standard port for connection with HCS-8368/50 Series Paperless Multimedia Congress Terminal (via Cat.5e/Cat.6 cable)
- 2 × 6P-DIN interface for connection with the Congress Main Unit or cascading to another HCS-8300KMX2 (equipped with CBL6PP-01 - 1-meter 6-pin extension cable with two plugs)
- 3 × 2P aviation plug for supplying power to HCS-8368/50 series Multimedia Congress Terminal (equipped with CBL4PK-01 - 1-meter power adapter cable)

### Technical Specifications

#### Electrical

Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz  
 Power output.....Four power outputs, each output 48V DC, 2.5A  
 Power consumption.....350 W

#### Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
 Dimensions (h x w x d).....43 × 483 × 208 mm  
 (1U high, full rack width)  
 Weight.....3.6 kg  
 Color.....Gray (PANTONE 425 C)

### Ordering Information

HCS-8300KMX2.....Congress Gigabit Network Switcher  
 (for G3 multimedia congress terminal)

## HCS-8300POE Congress PoE Network Switcher



### Functions

- Sync power on/off with the Congress Main Unit
- Built-in PoE switch to choose way of power supply:
  - ON: connecting DELEGATE port to tabletop congress terminals or the Distributor HCS-8368T/50 for power supply and transmission of conference data

### Interconnections

- 1 × RJ45 standard port (ETHERNET) for connection with CMU or EMU
- 5 × RJ45 standard port for connection with HCS-8665 Series Multimedia Congress Terminal (via Cat.5e/Cat.6 cable)
- 2 × 6P-DIN interface for connection with the Congress Main Unit or cascading to another HCS-8300PoE (equipped with CBL6PP-01 - 1-meter 6-pin extension cable with two plugs)

### Technical Specifications

#### Electrical

Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz  
 Control port.....5 × RJ45 socket with power supply  
 Power consumption.....350 W

#### Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
 Dimensions (h x w x d).....43 × 483 × 208 mm  
 (1U high, full rack width)  
 Weight.....3.6 kg  
 Color.....Gray (PANTONE 425 C)

### Ordering Information

HCS-8300POE.....Congress PoE Network Switcher  
 (supports PoE, for HCS-8665 series multimedia congress terminal)

## HCS-8368T Distributor



### Functions

- Extension of HCS-8368/50 series tabletop congress terminal in PoE mode

### Interconnections

- 1 × RJ45 standard port for connection with HCS-8300KMx2
- 7 × RJ45 standard port for connection with HCS-8368/50 tabletop congress terminal on each port
- DC power socket for external power supply to guarantee a stable signal transmission
- If five or more output ports are used, please connect to external power adapter

### Technical Specifications

#### Electrical

Power supply.....DC 48 V, 2 A  
Power consumption.....90 W

#### Mechanical

Mounting.....Tabletop  
Dimensions (h x w x d).....40 × 150 × 100 mm  
Color.....Gray (PANTONE 425 C)  
Weight.....0.4 kg

### Ordering Information

HCS-8368T.....Distributor  
(for G3 tabletop multimedia congress terminal)

## HCS-8368T/50 Distributor



### Functions

- Extension of HCS-8368/50 series tabletop congress terminal in PoE mode

### Interconnections

- 1 × RJ45 standard port for connection with HCS-8300KMx2
- 7 × RJ45 standard port for connection with HCS-8368/50 tabletop congress terminal on each port
- DC power socket (2P aviation socket) for external power supply to guarantee a stable signal transmission
- If five or more output ports are used, please connect to external power adapter

### Technical Specifications

#### Electrical

Power supply.....DC 48 V, 2 A  
Power consumption.....90 W

#### Mechanical

Mounting.....Tabletop  
Dimensions (h x w x d).....41 × 168 × 103 mm  
Color.....Black (PANTONE 419 C)  
Weight.....0.4 kg

### Ordering Information

HCS-8368T/50.....Distributor  
(for G3 tabletop multimedia congress terminal)

## HCS-8300KMX Congress Gigabit Network Switcher



### Functions

- Based on TAIDEN originated GMC-STREAM Gigabit Multimedia Congress Stream technology, supports daisy-chain connection to HCS-8338 and HCS-8348 Series Paperless Multimedia Congress Terminal; the quantity of Congress Terminals connected to each port is unlimited
- Sync power on/off with the Congress Main Unit

### Interconnections

- 8 × RJ45 standard port for connection with Congress Main Unit, HCS-8338 and HCS-8348 Series Paperless Multimedia Congress Terminal, external Ethernet switchers, etc. (via Cat.5e/Cat.6 cable)
- 1 × 6P-DIN interface for power supply from the Congress Main Unit, and equipped with CBL6PP-01 - 1-meter 6-pin extension cable with two plugs
- 2 × 2P aviation plug for getting power supply from power supply unit HCS-8300PM and HCS-8300PM2 (equipped with CBL2SS-01 - 1-meter 2-pin cable with two sockets) or supply power to HCS-8338 and HCS-8348 series Multimedia Congress Terminal (equipped with CBL4PK-01 - 1-meter power adapter cable)

### Technical Specifications

#### Electrical

Power supply.....DC 24 V - 33 V  
Power consumption.....10 W

#### Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
Dimensions h × w × d.....43 × 483 × 208 mm  
(1U high, full rack width)  
Weight.....2.3 kg  
Color.....Gray (PANTONE 425 C)

### Ordering Information

HCS-8300KMX.....Congress Gigabit Network Switcher

## HCS-8300MX Congress Room Combiner



### Functions

- Perfect solution for selectively combining or separating meeting rooms
- Flexibly and discretionary - according to situational conditions
- Up to 8 Congress Main Units per HCS-8300MX unit
- Cascadable to merge up to 14 meeting rooms

### Controls and Indicators

- Graphic 256 × 32 LCD with back-lighting displays configuration of RJ45 standard sockets, supporting multi-language menu
- Four buttons for configuration
- Power switch with indicator

### Interconnections

- 8 × RJ45 standard socket for connection with Congress Main Unit via Cat.5 cable
- 2 × RS232 port for connection to central control system and system diagnosis
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance

### Technical Specifications

#### Electrical

Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz  
Power consumption.....15 W

#### Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
Dimensions (h × w × d)  
For table use, with feet.....99 × 430 × 325 mm  
For 19" rack use, with brackets.....89 × 478 × 350 mm  
Weight.....5.2 kg  
Color.....White (PANTONE 420 C)

### Ordering Information

HCS-8300MX.....Congress Room Combiner

## HCS-8300PM Power Supply Unit



### Functions

- Provides power supply to HCS-8338 and HCS-8348 series Paperless Multimedia Congress Terminal, as well as to HCS-8300KMX Congress Gigabit Network Switcher
- Sync power on/off with the Congress Main Unit (equipped with CBL6PP-01 - 1-meter 6-pin extension cable with two plugs)

### Interconnections

- Power output: 4 × 2P aviation plug
- Power control interface: 4 × 6P-DIN socket

### Technical Specifications

#### Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz  
 Power output.....Four power outputs, each output 33V DC, 3A  
 Power consumption.....430 W

#### Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
 Dimensions (h × w × d)  
 For table use, with feet.....99 × 430 × 325 mm  
 For 19" rack use, with brackets.....89 × 478 × 350 mm  
 Weight.....10.3 kg  
 Color.....White (PANTONE 420 C)

### Ordering Information

HCS-8300PM.....Power Supply Unit (DC 33 V)

## HCS-8300PM2 Dual Backup Power Supply Unit



### Functions

- Provides power supply to HCS-8338 and HCS-8348 series Paperless Multimedia Congress Terminal, as well as to HCS-8300KMX Congress Gigabit Network Switcher
- Sync power on/off with the Congress Main Unit (equipped with CBL6PP-01 - 1-meter 6-pin extension cable with two plugs)
- Two completely independent power supply systems to realize dual backup for system power supply
- If the primary power supply fails, the standby power takes over supply immediately

### Interconnections

- Power output: 4 × 2P aviation plug
- Power control interface: 4 × 6P-DIN socket

### Technical Specifications

#### Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz  
 Power output.....Four power outputs, each output 33V DC, 3A  
 Power consumption.....430 W

#### Mechanical

Mounting.....Tabletop or mounted in a 19" rack  
 Dimensions (h × w × d)  
 For table use, with feet.....99 × 430 × 325 mm  
 For 19" rack use, with brackets.....89 × 478 × 350 mm  
 Weight.....14.2 kg  
 Color.....White (PANTONE 420 C)

### Ordering Information

HCS-8300PM2.....Dual Backup Power Supply Unit (DC 33 V)



Table 3 Quick lookup table for the max. number of connected multimedia terminals

Multi-media Terminal		The extension cable length between the HCS-8300PM/PM2 and the first Multimedia Terminal connected to the socket				
		20m	40m	60m	80m	100m
HCS-8338 HCS-8348		6	6	5	5	4
HCS-8338-NP HCS-8348-NP		5	5	4	4	3
HCS-8368/50	220 V dual backup power supply	5	5	4	4	-
	110 V dual backup power supply	4	4	4	3	-
	220 V single power supply	4	4	3	3	-
	110 V single power supply	3	3	3	2	-

## HCS-8301MD Digital Audio Mixer for Conference



### Features

- Cooperating with the HCS-8300M Congress Main Unit, the operator can adjust and monitor the audio of microphones, audio input/output and all simultaneous interpretations
- Automatic memory function: all parameters can be automatically saved before switching and can be recalled after switching
- High-performance motor potentiometer control
- Automatic parameter synchronization between mixer and control PC
- Audio parameter adjustment for microphones, including EQ, GAIN, MUTE, LOW CUT and FADER
- Audio parameter adjustment for AES/Dante IN, including EQ, MUTE and FADER
- Audio parameter adjustment for LINE IN, including EQ, GAIN, MUTE and FADER
- Audio parameter adjustment for AES/LINE OUT, including EQ, MUTE and FADER
- Audio parameter adjustment for simultaneous interpretation, including EQ, LOW CUT and OFF
- 10" TFT LCD screen for displaying status of each channel, connection status and setting interface
- Monitor earphone jacks with channel selector and volume control
- LCD screen rotary angle: 90° ~ 180°

Combining the HCS-8301MD Digital Audio Mixer with the HCS-8300 Congress Main Unit, the operator can adjust and monitor the audio of microphones, AES/Dante/line inputs, AES/line output and simultaneous interpretation without PC. All channel status can be displayed on 10" LCD screen.

### Controls and Indicators

- Through the control panel, the operator can monitor any six active microphone channels, up to 64 simultaneous interpretation channels (with paging), 2 AES/Dante/line inputs, 1 AES/line output channel

- Microphone channels: GAIN knob (-15 dB~+15 dB), 5 x EQ knob (9 KHz, 2.5 KHz, 1 KHz, 300 Hz, 80 Hz), FADER (-30 dB~0 dB), LOW CUT button, MUTE button, PEAK indicator
- AES/Dante/Line inputs: GAIN knob (-30 dB~0 dB), 5 x EQ knob (9 KHz, 2.5 KHz, 1 KHz, 300 Hz, 80 Hz), FADER (-30 dB~0 dB), MUTE button, PEAK indicator
- AES/Line output: 5 x EQ knob (10 KHz, 2.5 KHz, 1 KHz, 250 Hz, 100 Hz), FADER (-30 dB~0 dB), MUTE button, PEAK indicator
- Simultaneous interpretation channels: 3 x EQ knob (HF, MF, LF), FADER (-20 dB~+10 dB), MUTE button, OFF button, PEAK indicator, Engaged indicator
- 1 x channel selector knob for monitoring
- 1 x volume control knob for monitoring
- 10" TFT LCD
- Power switch with indicator

### Interconnections

- 1 x RJ45 standard socket (input) and 1 x 6P-DIN extension input socket for connection with Congress Main Unit (only one unit can be connected at the same time to the Main Unit)
- 1 x RJ45 standard socket for connection to Congress Main Unit (TO MIXER)
- 6P-DIN extension output for connection with Congress Unit or Congress Extension Main Unit
- RJ45 standard socket for connection to Ethernet interface (LAN)
- Ø 6.3 mm and Ø 3.5 mm monitor headphone jacks
- 2 x 8P aviation socket for connecting control panel with LCD (equipped with cable)

### Technical Specifications

#### Electrical

Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz  
Max. power consumption.....65 W

#### LCD

Type.....True color TFT LCD  
Dimension.....10.2 inches, 16:9  
Resolution.....800×480  
Display color.....2<sup>18</sup> (18 bit)  
Brightness.....400 cd/m<sup>2</sup>  
Contrast.....500:1

#### Mechanical

Dimensions h x w x d (mm).....103× 389 × 490 (unfurl)  
Weight.....7.0 kg  
Color.....Navy-blue (PANTONE 533 C)

### Ordering Information

HCS-8301MD .....Digital Audio Mixer for Conference  
(Dante parameter adjustable)

## HCS-8319N Service Request Control Unit



### Functions

- Stylish and ergonomic design with an ultra-thin 6.5 mm screen
- Equipped with a 14" LCD touch panel (1920×1080)
- Capacitive touch panel supporting multi-touch, improves operation experience
- Cooperates with the "call service" function of paperless multimedia congress terminals
- Receives and displays seat information, requested service, etc. of the conventioners, followed by a response
- DC or PoE power supply

### Technical Specifications

#### Electrical

##### LCD

Type.....True color TFT LCD  
 Dimension.....14 inches, 16:9  
 Resolution.....1920×1080  
 Display color.....2<sup>18</sup>(18 bit)  
 Contrast.....700:1

##### Power

Power adapter  
 Input.....AC 100 V - 240 V, 50 Hz / 60 Hz  
 Output.....Voltage: DC +15 V; max. current: 2.4 A;  
 output interface: Ø 5.5 mm plug

#### Mechanical

Mounting.....Tabletop  
 Dimensions (h × w × d).....208 × 349 × 122 mm  
 Weight (incl. microphone).....1.7 kg  
 Color.....Black (PANTONE 419 C)

### Ordering Information

HCS-8319N.....Service Request Control Unit (14" 1920×1080  
 LCD, capacitive touch panel, support PoE,  
 HCS-8239 & HCS-8241 needed, black)

## HCS-8300MOD/FSD 8 Channels Audio Output Device



### Functions

- Converts the digital audio signals of the Congress System to multi channel digital(AES/EBU)/analog audio signals, for further processing in infrared simultaneous interpretation systems or recording devices
- Output level of each channel adjustable
- Configurable as Sync/Not sync power on/off with Congress Main Unit

### Controls and Indicators

- Graphic 256 × 32 LCD with back-lighting displays 8 CHs output channel number and language name, supporting multi-language menu
- Four buttons for configuration
- Power switch with indicator
- Channel indicators
- Volume adjust knob

### Interconnections

- 4 × XLR-M connector for 8 CHs digital (AES/EBU) audio outputs
- 8 × RCA connector for analog audio outputs (unbalanced)
- 8 × 3-pin Phoenix connector for analog audio outputs (balanced)
- 1 × headphone output socket (Ø 3.5 mm) for monitoring channel languages, adjustable volume and rotary step control for fast selection of language channels
- 1 × RJ45 standard socket (input) and 1 × 6P-DIN socket for connection with Congress Main Unit (only one unit can be connected at the same time to the Main Unit)
- 1 × RJ45 standard socket (output) for connection with the sequencing Congress Extension Main Unit or audio input interface/audio output device
- 2 × RS232 port for connection to central control system and system diagnosis
- Integrated USB interfaces for upgrading system and saving system parameters. Convenient for system maintenance
- Equipped with duplex SC single-mode optical fiber interface
- Dante interface to connect to peripheral digital devices without losing any sound quality

### Technical Specifications

#### Electrical

Frequency response	30 Hz to 20 kHz
SNR	≥90 dBA
Dynamic range	≥90 dB
Isolation	≥85 dB
THD	≤0.05%
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	65 W

#### Max. audio outputs

Analog: 8 × RCA	+12 dBu
Analog: 8 × 3-pin Phoenix	+18 dBu
Digital: 4 × XLR-M	1 FFS
Output level adjustable range	-30 dB~ +20 dB, mute

#### Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	99 × 430 × 325 mm
For 19" rack use, with brackets	89 × 478 × 350 mm
Weight	5.5 kg
Color	White (PANTONE 420 C)

### Ordering Information

HCS-8300MOD/FSD...8 Channels Audio Output Device (AES/EBU digital outputs, analog outputs, single-mode optical fiber interface, Dante interface)

## HCS-8300MOD 8 Channels Audio Output Device



### Functions

- Converts the digital audio signals of the Congress System to multi channel digital(AES/EBU)/analog audio signals, for further processing in infrared simultaneous interpretation systems or recording devices
- Output level of each channel adjustable
- Configurable as Sync/Not sync power on/off with Congress Main Unit

### Controls and Indicators

- Graphic 256 × 32 LCD with back-lighting displays 8 CHs output channel number and language name, supporting multi-language menu
- Four buttons for configuration
- Power switch with indicator
- Channel indicators
- Volume adjust knob

### Interconnections

- 4 × XLR-M connector for 8 CHs digital (AES/EBU) audio outputs
- 8 × RCA connector for analog audio outputs (unbalanced)
- 8 × 3-pin Phoenix connector for analog audio outputs (balanced)
- 1 × headphone output socket (Ø 3.5 mm) for monitoring channel languages, adjustable volume and rotary step control for fast selection of language channels
- 1 × RJ45 standard socket (input) and 1 × 6P-DIN socket for connection with Congress Main Unit (only one unit can be connected at the same time to the Main Unit)
- 1 × RJ45 standard socket (output) for connection with the sequencing Congress Extension Main Unit or audio input interface/audio output device
- 2 × RS232 port for connection to central control system and system diagnosis
- Integrated USB interfaces for upgrading system and saving system parameters. Convenient for system maintenance

### Technical Specifications

#### Electrical

Frequency response	30 Hz to 20 kHz
SNR	≥90 dBA
Dynamic range	≥90 dB
Isolation	≥85 dB
THD	≤0.05%
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	65 W

#### Max. audio outputs

Analog: 8 × RCA	+12 dBu
Analog: 8 × 3-pin Phoenix	+18 dBu
Digital: 4 × XLR-M	1 FFS
Output level adjustable range	-30 dB~ +20 dB, mute

#### Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	99 × 430 × 325 mm
For 19" rack use, with brackets	89 × 478 × 350 mm
Weight	5.5 kg
Color	White (PANTONE 420 C)

### Ordering Information

HCS-8300MOD	8 Channels Audio Output Device (AES/EBU digital outputs, analog outputs)
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## HCS-8300MOA/FSD 8 Channels Audio Output Device



### Functions

- Converts the digital audio signals of the Congress System to multi channel analog audio signals, for further processing in infrared simultaneous interpretation systems or recording devices
- Output level of each channel adjustable
- Configurable as Sync/Not sync power on/off with Congress Main Unit

### Controls and Indicators

- Graphic 256 × 32 LCD with back-lighting displays 8 CHs output channel number and language name, supporting multi-language menu
- Four buttons for configuration
- Power switch with indicator
- Channel indicators
- Volume adjust knob

### Interconnections

- 8 × RCA connector for analog audio outputs (unbalanced)
- 8 × 3-pin Phoenix connector for analog audio outputs (balanced)
- 1 × headphone output socket (Ø 3.5 mm) for monitoring channel languages, adjustable volume and rotary step control for fast selection of language channels
- 1 × RJ45 standard socket (input) and 1 × 6P-DIN socket for connection with Congress Main Unit (only one unit can be connected at the same time to the Main Unit)
- 1 × RJ45 standard socket (output) for connection with the sequencing Congress Extension Main Unit or audio input interface/audio output device
- 2 × RS232 port for connection to central control system and system diagnosis
- Integrated USB interfaces for upgrading system and saving system parameters. Convenient for system maintenance
- Equipped with duplex SC single-mode optical fiber interface
- Dante interface to connect to peripheral digital devices without losing any sound quality

### Technical Specifications

#### Electrical

Frequency response	30 Hz to 20 kHz
SNR	≥90 dBA
Dynamic range	≥90 dB
Isolation	≥85 dB
THD	≤0.05%
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	65 W

#### Max. audio outputs

Analog: 8 × RCA	+12 dBu
Analog: 8 × 3-pin Phoenix	+18 dBu
Output level adjustable range	-30 dB~ +20 dB, mute

#### Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	99 × 430 × 325 mm
For 19" rack use, with brackets	89 × 478 × 350 mm
Weight	5.5 kg
Color	White (PANTONE 420 C)

### Ordering Information

HCS-8300MOA/FSD.....8 Channels Audio Output Device (analog outputs, single-mode optical fiber interface, Dante interface)

## HCS-8300MOA 8 Channels Audio Output Device



### Functions

- Converts the digital audio signals of the Congress System to multi channel analog audio signals, for further processing in infrared simultaneous interpretation systems or recording devices
- Output level of each channel adjustable
- Configurable as Sync/Not sync power on/off with Congress Main Unit

### Controls and Indicators

- Graphic 256 × 32 LCD with back-lighting displays 8 CHs output channel number and language name, supporting multi-language menu
- Four buttons for configuration
- Power switch with indicator
- Channel indicators
- Volume adjust knob

### Interconnections

- 8 × RCA connector for analog audio outputs (unbalanced)
- 8 × 3-pin Phoenix connector for analog audio outputs (balanced)
- 1 × headphone output socket (Ø 3.5 mm) for monitoring channel languages, adjustable volume and rotary step control for fast selection of language channels
- 1 × RJ45 standard socket (input) and 1 × 6P-DIN socket for connection with Congress Main Unit (only one unit can be connected at the time to the Main Unit)
- 1 × RJ45 standard socket (output) for connection with the sequencing Congress Extension Main Unit or audio input interface/audio output device
- 2 × RS232 port for connection to central control system and system diagnosis
- Integrated USB interfaces for upgrading system and saving system parameters. Convenient for system maintenance

### Technical Specifications

#### Electrical

Frequency response	30 Hz to 20 kHz
SNR	≥90 dBA
Dynamic range	≥90 dB
Isolation	≥85 dB
THD	≤0.05%
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	65 W

#### Max. audio outputs

Analog: 8 × RCA	+12 dBu
Analog: 8 × 3-pin Phoenix	+18 dBu
Output level adjustable range	-30 dB~ +20 dB, mute

#### Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	99 × 430 × 325 mm
For 19" rack use, with brackets	89 × 478 × 350 mm
Weight	5.5 kg
Color	White (PANTONE 420 C)

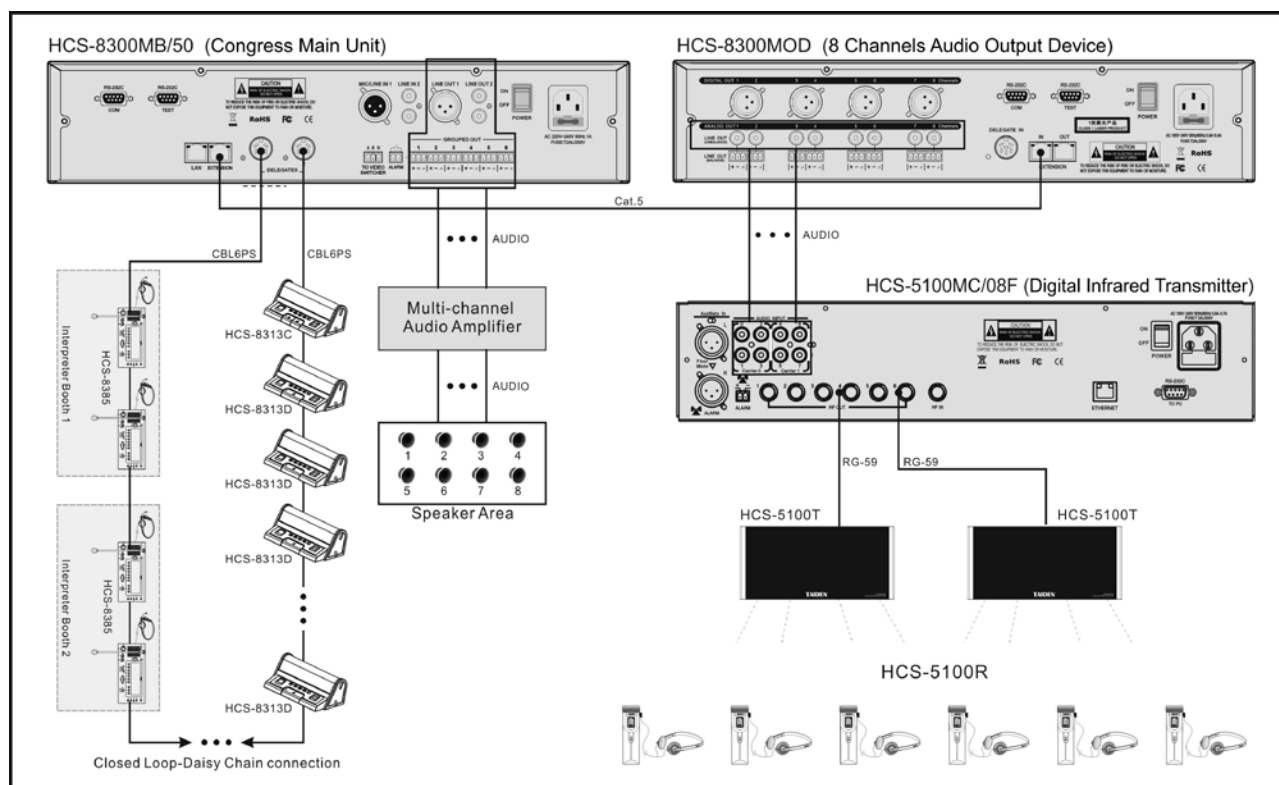
### Ordering Information

HCS-8300MOA	8 Channels Audio Output Device (analog outputs)
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## Function list

Type No.	Analog output	Digital output	Optical fiber interface	Dante interface
HCS-8300MOD/FSD	√	√	√	√
HCS-8300MOD	√	√		
HCS-8300MOA/FSD	√		√	√
HCS-8300MOA	√			

## System Connection [discussion + voting + infrared simultaneous interpretation]



## HCS-8300MID/FSD 8 Channels Audio Input Interface



### Functions

- Transmits 8 digital(AES/EBU)/analog audio channels to the interpretation channels of the Congress System, for example for remote interpretation purposes or for transmission to floor channel
- All inputs can be mixed with arbitrary ratio, and outputted to any channel
- Configurable as Sync/Not sync power on/off with Congress Main Unit

### Controls and Indicators

- Graphic 256 × 32 LCD with back-lighting displays 8 CHs input channel number and language name, supporting multi-language menu
- Four buttons for configuration
- Power switch with indicator
- Channel indicators
- Volume adjust knob

### Interconnections

- 4 × XLR-F connector for 8 CHs digital (AES/EBU) audio inputs
- 8 × RCA connector for Line in (unbalanced)
- 8 × 3-pin Phoenix connector for Line in /microphone inputs (balanced)
- 1 × headphone output socket (Ø 3.5 mm) for monitoring channel languages, adjustable volume control and rotary step control for fast selection of language channels
- 1 × RJ45 standard socket (input) and 1 × 6P-DIN socket for connection with Congress Main Unit (only one unit can be connected at the same time to the Main Unit)
- 1 × RJ45 standard socket (output) for connection with the sequencing Congress Extension Main Unit or audio input interface/audio output device
- 2 × RS232 port for connection to central control system and system diagnosis
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance
- Equipped with duplex SC single-mode optical fiber interface
- Dante interface to connect to peripheral digital devices without losing any sound quality

### Technical Specifications

#### Electrical

Frequency response	30 Hz to 20 kHz
SNR	≥90 dBA
Dynamic range	≥90 dB
Isolation	≥85 dB
THD	≤0.05%
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	65 W

#### Max. audio inputs

Analog: 8 × RCA	+18 dBu
Analog: 8 × 3-pin Phoenix (Line in)	+8 dBu
Analog: 8 × 3-pin Phoenix (Mic. in)	-12 dBu
Digital: 4 × XLR-F	1 FFS
Input sensitivity adjustable range	-20 dB ~ +10 dB, mute

#### Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	99 × 430 × 325 mm
For 19" rack use, with brackets	89 × 478 × 350 mm
Weight	5.5 kg
Color	White (PANTONE 420 C)

### Ordering Information

HCS-8300MID/FSD...8 Channels Audio Input Interface (AES/EBU digital inputs, analog inputs, single-mode optical fiber interface, Dante interface)

## HCS-8300MID 8 Channels Audio Input Interface



### Functions

- Transmits 8 digital(AES/EBU)/analog audio channels to the interpretation channels of the Congress System, for example for remote interpretation purposes or for transmission to floor channel
- All inputs can be mixed with arbitrary ratio, and outputted to any channel
- Configurable as Sync/Not sync power on/off with Congress Main Unit

### Controls and Indicators

- Graphic 256 × 32 LCD with back-lighting displays 8 CHs input channel number, language name, supporting multi-language menu
- Four buttons for configuration
- Power switch with indicator
- Channel indicators
- Volume adjust knob

### Interconnections

- 4 × XLR-F connector for 8 CHs digital (AES/EBU) audio inputs
- 8 × RCA connector for Line in (unbalanced)
- 8 × 3-pin Phoenix connector for Line in /microphone inputs (balanced)
- 1 × headphone output socket (Ø 3.5 mm) for monitoring channel languages, adjustable volume control and rotary step control for fast selection of language channels
- 1 × RJ45 standard socket (input) and 1 × 6P-DIN socket for connection with Congress Main Unit (only one unit can be connected at the same time to the Main Unit)
- 1 × RJ45 standard socket (output) for connection with the sequencing Congress Extension Main Unit or audio input interface/audio output device
- 2 × RS232 port for connection to central control system and system diagnosis
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance

### Technical Specifications

#### Electrical

Frequency response	30 Hz to 20 kHz
SNR	≥90 dBA
Dynamic range	≥90 dB
Isolation	≥85 dB
THD	≤0.05%
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	65 W

#### Max. audio inputs

Analog: 8 × RCA	+18 dBu
Analog: 8 × 3-pin Phoenix (Line in)	+8 dBu
Analog: 8 × 3-pin Phoenix (Mic. in)	-12 dBu
Digital: 4 × XLR-F	1 FFS
Input sensitivity adjustable range	-20 dB ~ +10 dB, mute

#### Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	99 × 430 × 325 mm
For 19" rack use, with brackets	89 × 478 × 350 mm
Weight	5.5 kg
Color	White (PANTONE 420 C)

### Ordering Information

HCS-8300MID	8 Channels Audio Input Interface (AES/EBU digital inputs, analog inputs)
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## HCS-8300MIA/FSD 8 Channels Audio Input Interface



### Functions

- Transmits 8 analog audio channels to the interpretation channels of the Congress System, for example for remote interpretation purposes or for transmission to floor channel
- All inputs can be mixed with arbitrary ratio, and outputted to any channel
- Configurable as Sync/Not sync power on/off with Congress Main Unit

### Controls and Indicators

- Graphic 256 × 32 LCD with back-lighting displays 8 CHs input channel number, language name, supporting multi-language menu
- Four buttons for configuration
- Power switch with indicator
- Channel indicators
- Volume adjust knob

### Interconnections

- 8 × RCA connector for Line in (unbalanced)
- 8 × 3-pin Phoenix connector for Line in /microphone inputs (balanced)
- 1 × headphone output socket (Ø 3.5 mm) for monitoring channel languages, adjustable volume control and rotary step control for fast selection of language channels
- 1 × RJ45 standard socket (input) and 1 × 6P-DIN socket for connection with Congress Main Unit (only one unit can be connected at the same time to the Main Unit)
- 1 × RJ45 standard socket (output) for connection with the sequencing Congress Extension Main Unit or audio input interface/audio output device
- 2 × RS232 port for connection to central control system and system diagnosis
- Integrated USB interfaces for system upgrading and saving system parameters. Convenient for system maintenance
- Equipped with duplex SC single-mode optical fiber interface
- Dante interface to connect to peripheral digital devices without losing any sound quality

### Technical Specifications

#### Electrical

Frequency response	30 Hz to 20 kHz
SNR	≥90 dBA
Dynamic range	≥90 dB
Isolation	≥85 dB
THD	≤0.05%
Power supply	AC 100 V - 240 V, 50 Hz / 60 Hz
Power consumption	65 W

#### Max. audio inputs

Analog: 8 × RCA	+18 dBu
Analog: 8 × 3-pin Phoenix (Line in)	+8 dBu
Analog: 8 × 3-pin Phoenix (Mic. in)	-12 dBu
Input sensitivity adjustable range	-20 dB ~ +10 dB, mute

#### Mechanical

Mounting	Tabletop or mounted in a 19" rack
Dimensions (h × w × d)	
For table use, with feet	99 × 430 × 325 mm
For 19" rack use, with brackets	89 × 478 × 350 mm
Weight	5.5 kg
Color	White (PANTONE 420 C)

### Ordering Information

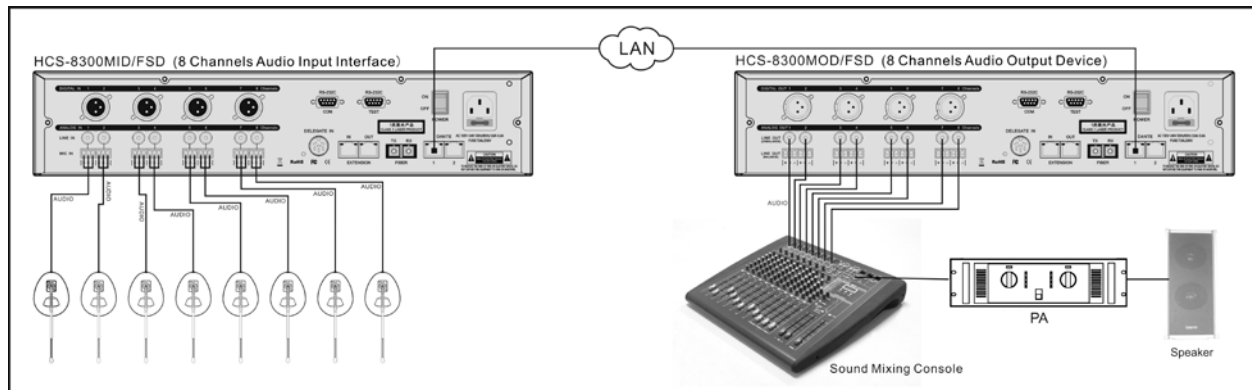
HCS-8300MIA/FSD	8 Channels Audio Input Interface (analog inputs, single-mode optical fiber interface, Dante interface)
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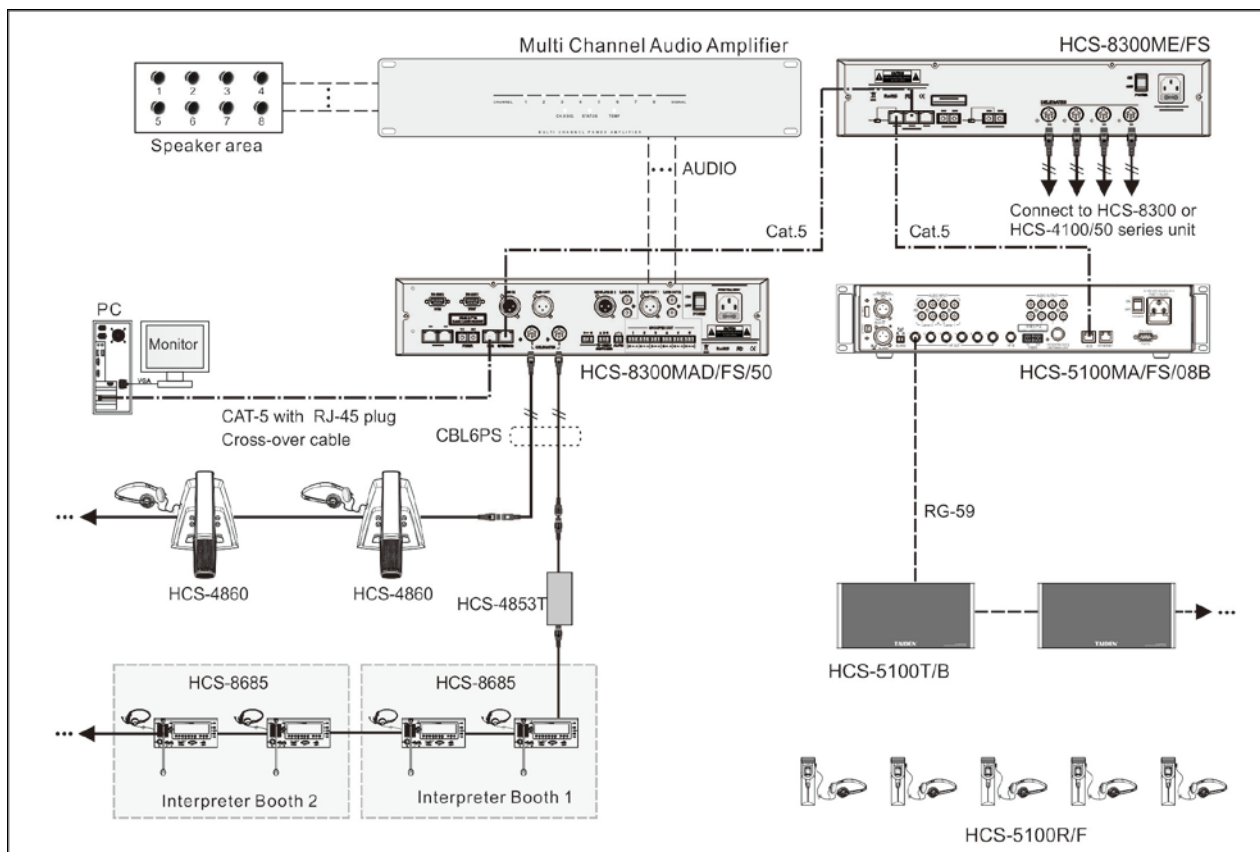
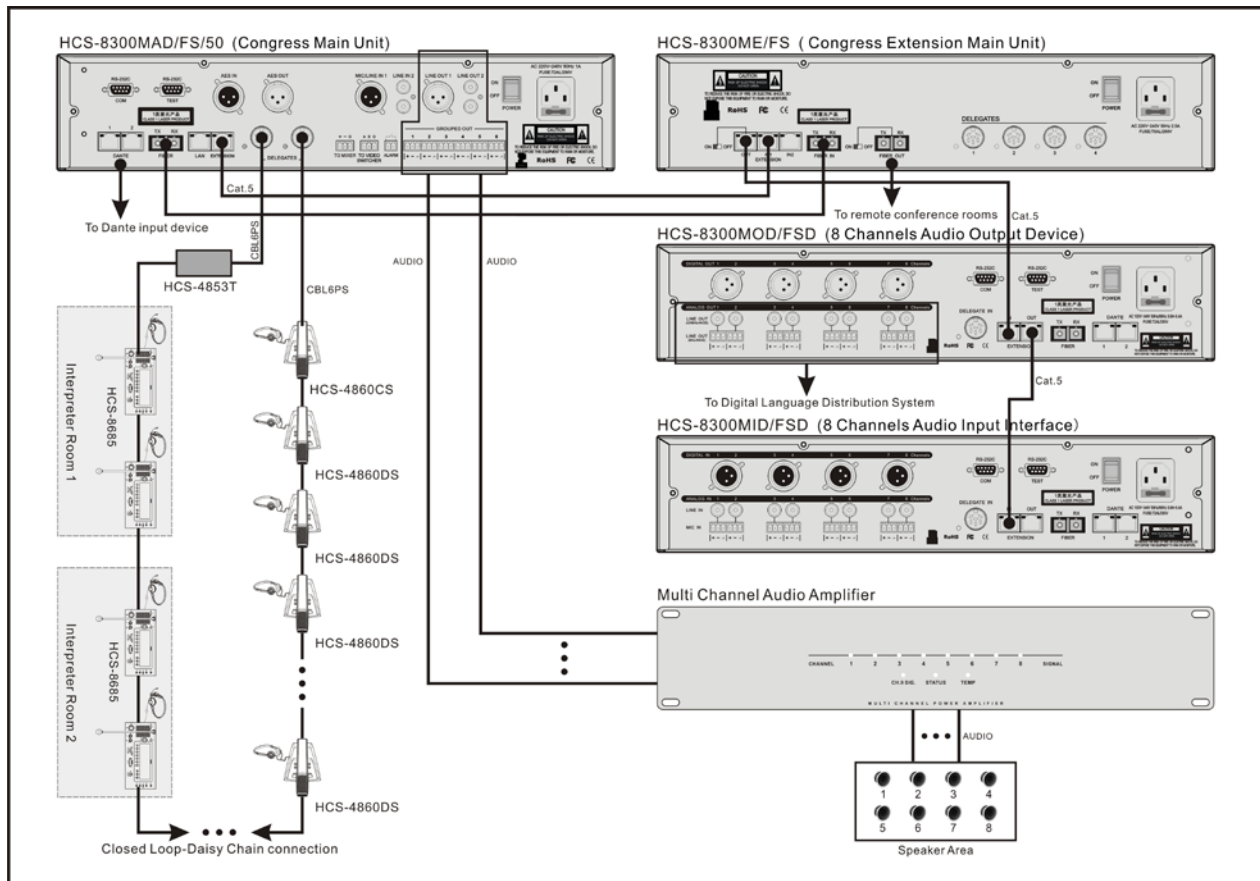
## Function list

Type No.	Analog input	Digital input	Optical fiber interface	Dante interface
HCS-8300MID/FSD	√	√	√	√
HCS-8300MID	√	√		
HCS-8300MIA/FSD	√		√	√

## System Connection [HCS-8300MI + HCS-8300MO multi-channel audio transmission]



## HCS-8300 Series Digital Congress System - Connection Diagram



## HCS-8300 Series Application Software

HCS-8300 application software is comprehensive, reliable and user-friendly. But it is also an easy care software system which helps the operator to manage the conference efficiently from the very beginning of a meeting until the post-meeting work. With the PC installed HCS-8300 application software connected into the Fully Digital Conference System (FDCS), the operator can manage all aspects of the conference centrally. The operation turns out to be easy and efficient.

HCS-8300 application software is a modularized software with various functional modules:

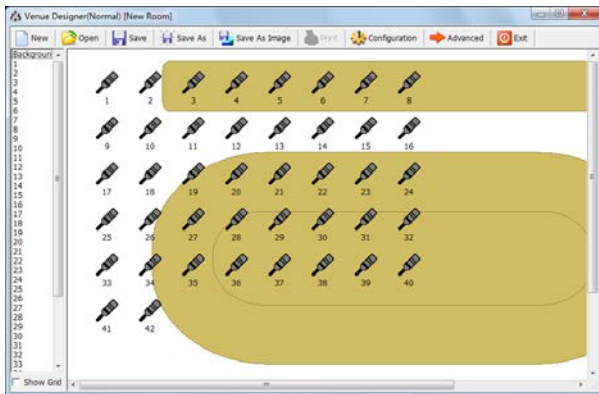
- Basic System Setup Management Software Module (HCS-8210/50)
- Professional Venue Design Software Module (HCS-8212)
- Microphone Management Software Module (HCS-8213)
- Voting Management Software Module (HCS-8214)
- Video Control Software Module (HCS-8215)
- Simultaneous Interpretation Software Module (HCS-8216)
- Intercom Software Module (HCS-8218)
- Synchronous Audio Recording Management Software Module (HCS-8219)
- Multi-User Conference Control Software Module (HCS-8221)
- Dual PC Server Hot Spare Software Module (HCS-8222)
- Agenda Control Software Module (HCS-8223)
- Speech Prompt Module (HCS-8224)
- Dual System Main Unit Hot Spare Software Module (HCS-8225)
- Touched/Contactless IC-Card Sign in Management Software Module (HCS-8226)
- Fingerprint Identification Management Software Module (HCS-8229)
- CongressMatrix Software Module (HCS-8238)
- Congress Service Management Software Module (HCS-8239)
- Video Service Software Module (HCS-8240)
- File Management Software Module (HCS-8241)
- Congress Nameplate Building Software Module (HCS-8242)
- Document Management System Software (HCS-8245S)
- Document Reader APP (for Android system) (HCS-8245APP)



## HCS-8210/50 Basic Software Module

Basic software module consists of an amount of facilities, e.g. venue design (normal edition), conference management, main unit configuration, contribution unit configuration, information display, system detection, system report, and user management.

### Venue design facility



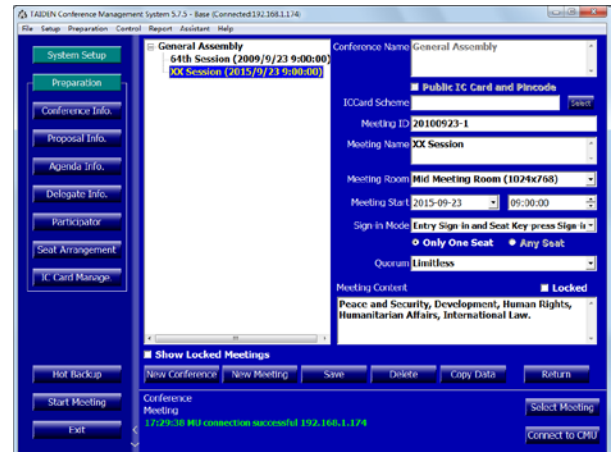
Venue design (normal edition)

### Functions

Converts the venue seating into an intuitive, graphical and controllable interface as a basis for further use, according to the actual layout of the venue

- Self-designing the background picture and color, supporting pictures of any size
- Microphone number, amount of microphones per line, icon type - icon transparency optionally
- Freely drag and drop the microphone icon
- Reconfiguration of the initialized settings, available at any time
- Save/open files for file management
- Especially suitable for small-scale and medium-sized meeting room/hall. The professional edition of venue design module offers more facilities described in HCS-8212 Professional Venue Design Module

### Conference information management



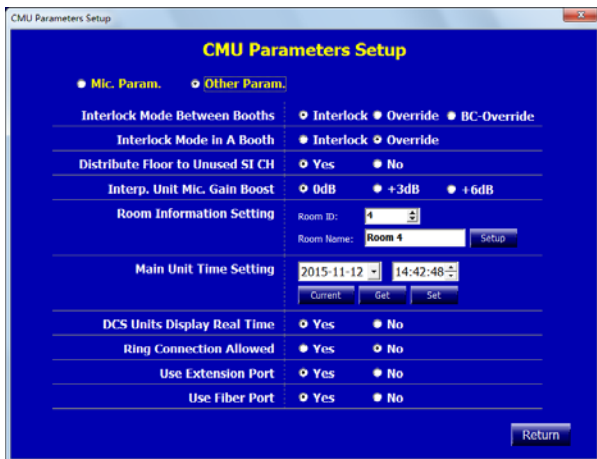
Conference information

### Functions

Comprehensive conference information management facility, for clear and easy user management.

- Includes conference name and meeting information
- Each conference consists of several meetings
- Creation of a new meeting for appointed conference
- Meeting:
  - ◆ Meeting content: meeting name, meeting room name, meeting start time, sign in mode, quorum and conference content
  - ◆ Display of convoked meetings in distinct colors
  - ◆ Locking a convoked meeting for meeting data protection
- Freely switch between the meetings to manage

## Main unit configuration facility



CMU parameters setup



Main unit control panel

## Functions

Module provides **CMU parameters setup** and **CMU control panel** sub-modules.

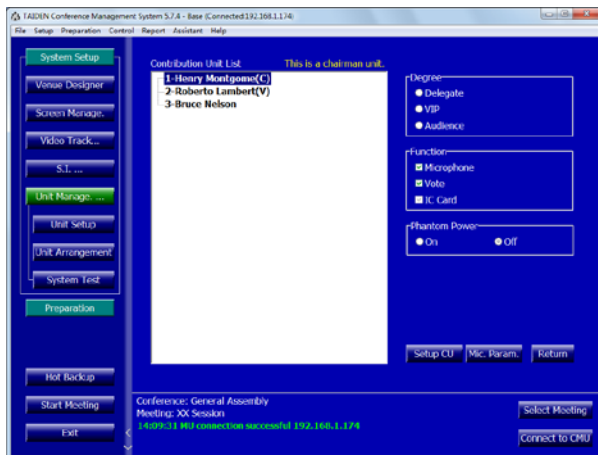
### ■ CMU parameters setup:

- Microphone Parameters:
  - ♦ Voice Sensitivity Level: set the sensitivity "Level" and "Off Time" to open microphone in Voice mode
  - ♦ Video Track:
    - Status: turn on/off video track function
    - Display Name: whether display delegate name or not when video track is active
    - Mode: set video track mode as FIFO or VIP First when video tracking
  - ♦ Chairman Priority Mode: set the operation when the chairman unit presses the priority button
    - All Off: turn off all microphones of delegates
    - All Mute: mute all microphones of delegates temporarily; once the button released, the former state is restored
    - Disabled: disable chairman unit's priority function. If disabled, the function of the priority key is the same as the Mic. On/Off key
  - ♦ Ring Mode: turn on/off all ring tones of the conference units when applying to speak, on receipt of a short message or on IC card insertion

- ♦ Reduce HP volume when Mic. Active: select whether reduce headphone volume or not when Mic. active
- ♦ Handheld Mic. PTT Mode: force handheld microphone to PTT mode
- ♦ Mic. Green LED Ring: the illuminated ring will be lighted when the microphone is applying
- ♦ When abnormally disconnected, switch from Apply mode to Open mode
- Other Parameters:
  - ♦ Interlock Mode Between Booths: Booths output channels interlock mode (Interlock/ Override/ BC-Override), in BC-Override mode, channel A was protected, cannot override
  - ♦ Interlock Mode in A Booth: interlock mode (Interlock/ Override) in the same booth among the interpreter units;
  - ♦ Distribute Floor to Used SI CH: select whether to distribute floor to used SI channel automatically or not when the SI channel is not operated
  - ♦ Interp. Unit Mic. Gain Boost: 0dB, +3dB or +6dB is optional;
  - ♦ Room Information Setting: set up room ID and room name, the setup will take effect after restart of the main unit
  - ♦ Main Unit Time Setting: setup the time displayed on the LCD of the main unit's front panel
    - Current: display the time of the DCS server
    - Get: read the time of the main unit
    - Set: set the time of the main unit according to the time of the DCS server
  - ♦ DCS Units Display Real Time: select whether the contribution units display real time or not
  - ♦ Ring Connection Allowed: select whether ring connection topology is allowed or not
  - ♦ Use Extension Port: select whether use extension port or not
  - ♦ Use Fiber Port: select whether use fiber port or not
  - ♦ Enable Unit Control Nameplate Page: select whether allow multi-media terminal to control corresponding nameplate
- **CMU control panel:** synchronously display and adjust the status of the Congress Main Unit, for flexible control of the CMU by the operator
  - ♦ Active Microphones (1/2/3/4)
  - ♦ Operation mode (OPEN/OVERRIDE/VOICE/APPLY/PTT)
  - ♦ Master Volume (-30 dB – 0 dB)

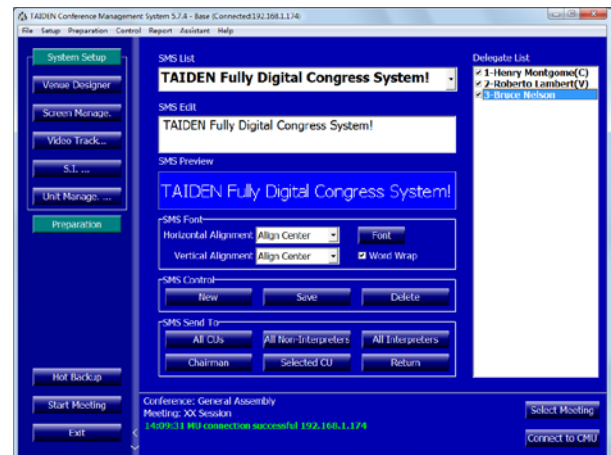


## Contribution unit configuration facility



Set up contribution unit interface

## Information display



Short message

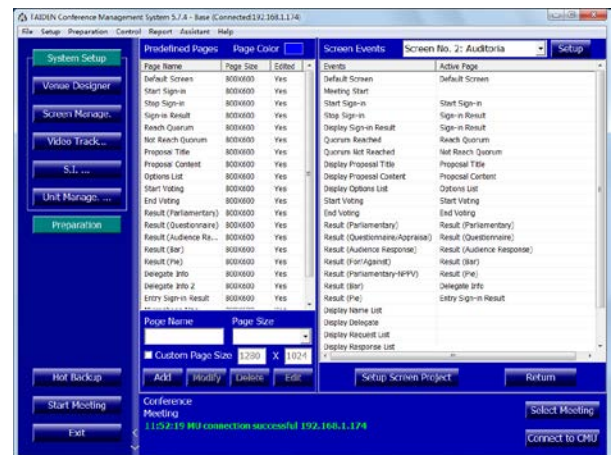
## Functions

Set up and reconfigure internal parameters of the contribution unit by the administrator.

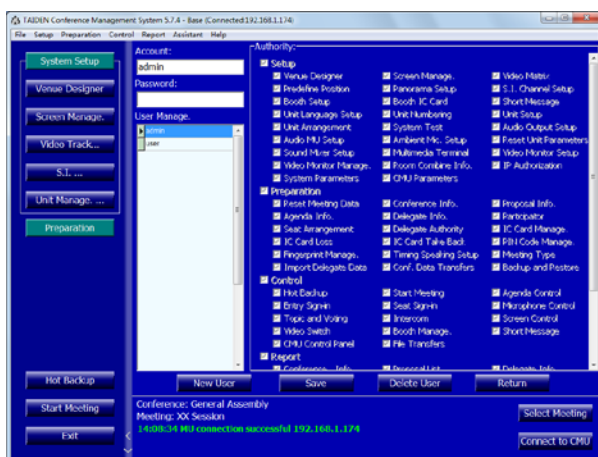
Parameters include:

- Contribution unit status (Delegate/VIP/Audience)
- Built-in facilities (Microphone/vote/IC-Card sign-in)
- Microphone sensitivity and EQ
- Easy reconfiguration of the internal settings
- Easy selection of any chairman unit to be executive chairman unit

## User management



Screen management



User management interface

## Functions

Create/delete a user, change user password and authorization

- Create a new user, and set his/her account, password, authority
- Change user's password and authorization
- Supports deleting a user

## Functions

Include screen management and short message.

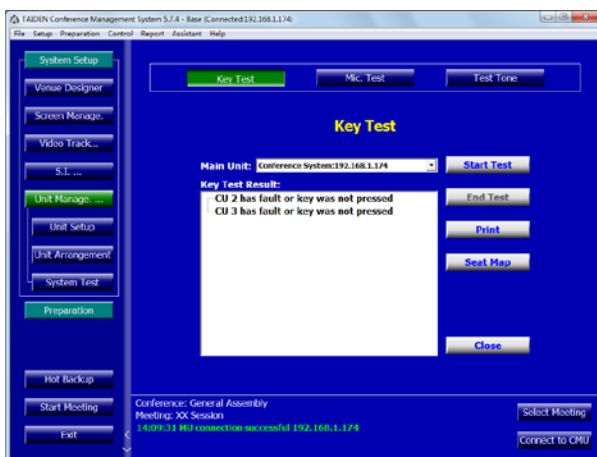
- **Screen management:** design of a screen and its related activated event
  - ◆ Set distinct screen projects for distinct conferences and languages
  - ◆ Predetermination of screen page contents: includes page color, page name, page size, etc.
  - ◆ Editing screen page contents: includes add text, picture, delegate's photo, voting results, etc.
  - ◆ Select the page to display when conference event starts. Each conference event corresponds to a particular screen page
  - ◆ Allocation of an alias for each screen for more convenience
- **Short message:**
  - ◆ Write short message: write short message up to the permitted message size, synchronous display for preview purposes. Supports various Chinese/English fonts and formats.
  - ◆ Send short message: select the compiled short message and send it/them to the unit(s), e.g. all contribution units (CU), all interpreters / non-interpreters, chairman and selected CU etc.
  - ◆ Contribution unit should be equipped with LCD to receive and display the short message.



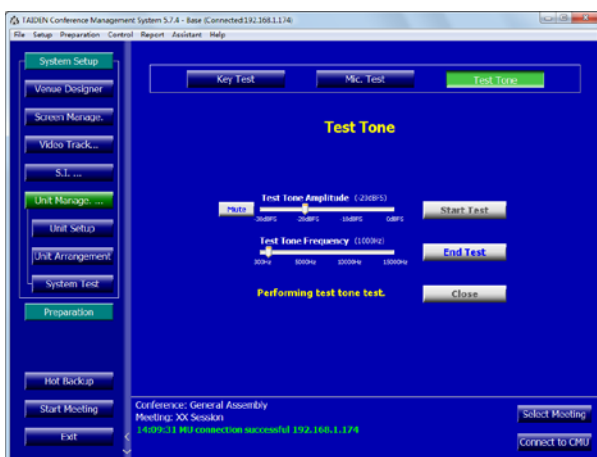
## System detection



Microphone test interface



Key test interface



Test tone test interface

## Functions

Online system test facility, including **microphone test**, **key test**, and **test tone test**

### ■ Microphone test, includes:

- ◆ Time setting for testing a microphone, valid for all microphones
- ◆ Facility to issue white noise for testing assistance
- ◆ Auto-detection of system-connected microphones with ID display of current tested microphone
- ◆ Sequential automatic test procedure: once time setting value reached, the tested unit is cleared and the sequencing unit is processed

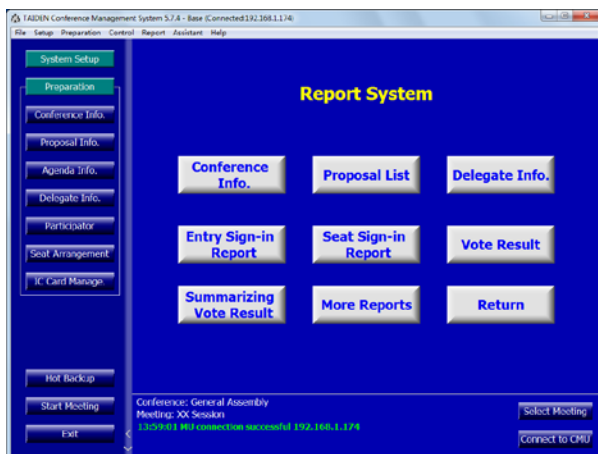
### ■ Key test: starts key test for all system-connected contribution unit

- ◆ Main unit IP address display
- ◆ Contribution units enter key detection state for key tests immediately on start of key test routine
- ◆ Result display on software interface on routine completion
- ◆ Supports printout

### ■ Test tone test:

- ◆ The HCS-8301M must be connected with the conference main unit before test tone test
- ◆ The amplitude of the test tone can be adjusted: -30 dBFS – 0 dBFS, default: -20 dBFS
- ◆ The frequency of the test tone can be adjusted: 300 Hz – 15000 Hz, default: 1000 Hz
- ◆ Test tone amplitude and frequency are synchronized with the settings on HCS-8301M

## Report system



Report system

## Functions

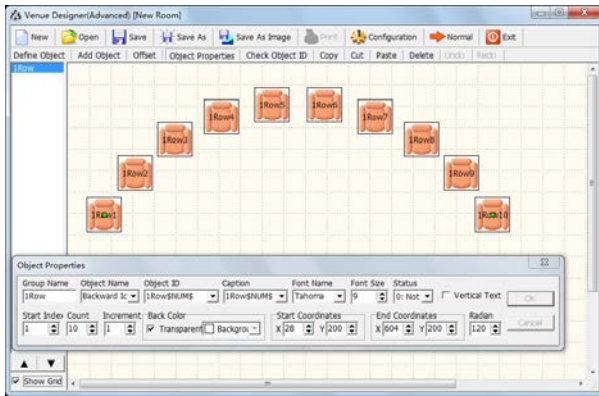
Conference information output from the software's database, for backup or printout purposes. The conference information includes:

- Conference information
- Proposal list
- Delegate information
- Sign-in report
- Voting result
- Summarizing voting results
- More reports

## Ordering Information

HCS-8210/50 ...Basic System Setup Management Software Module

## HCS-8212 Professional Venue Design Module



Venue design (professional)

### Functions

Unlike the normal edition of the Venue Design Module, the professional version has additional powerful functions to design manifold layouts of venues. The main difference is the availability of functional buttons for file operation (toolbar buttons) and object operation (buttons below toolbar buttons) in the toolbars. In addition, the functions are also available in the file right-click pop-up menu. Moreover, the Object Properties dialog box is floating on the window for fast changing the properties of current object.

- File operation:
  - ♦ Venue design supports file operation, including: new, open, save as, and print
  - ♦ Create a new conference file: set the background color, room size and other parameters, including:
    - Background
    - Line number
    - Amount per line
    - Seat icon
    - Seat direction
    - Transparent icon or not
    - Show as MIC. icon or not
    - Re-arrange seat position or not
  - ♦ The parameters above can be changed at any time through "Configuration" menu on the toolbar
  - ♦ Add seat/microphone icons line by line, 8 seats/microphones per line as default value. The amount of seats/microphones per line can be modified. While the normal edition can add only one seat at one go, the professional venue design module can add groups with more than one seat/microphone per group
  - ♦ Shifting facility for complete layout
- Define object:
  - ♦ Picture library with default (customized and/or recurrent) objects
  - ♦ Modifiable object information, e.g. object name, image path, distinguishable colors for displaying object images in different states (e.g. signed-in etc.)

- Powerful "object properties" function: object attribute can be set and changed, including:
  - ♦ Set group name and object name
  - ♦ Set unique ID and ID display mode for every object, supporting different fonts and sizes
  - ♦ Set starting object status
  - ♦ Set a radian for the object group and design seat layout according to true seating positions
  - ♦ Set start index of the object group
  - ♦ Change the amount of the units in an object group
  - ♦ Set numbering increment
  - ♦ Set initial background color and whether transparent or not
  - ♦ Set start and end coordinates of object group
- Object ID check facilities
- Support object copy, cut, paste and delete operation
- Object arrangement can be changed

### Ordering Information

HCS-8212.....Professional Venue Design Software Module

## HCS-8213 Microphone Management Module



Unit arrangement



Delegate information



Microphone control

- Assign a single seat for each delegate
- Section seating, automatic seat assignment for a group of delegates, supports new assignment – in parts or entirely
- Clear a single seat if required for a new assignment
- ♦ Unit arrangement: assign the Congress Units to the corresponding positions based on the true delegate seating, current cabling and layout:
  - Unit arrangement, assign the Congress Units to the true delegate seating
  - Delete unit, reassign the units
  - Locate seat position by menu operation
  - Operate the arranged units to check the arrangement

### ■ Delegate management includes three sub-modules: delegate information, participants and delegate authority

- ♦ Delegate information: create and manage the delegate's database
  - Edit delegate information: number, type, name, voting weight, leader (yes or no), presidium (yes or no), etc. Supports individual picture in the database
  - Users can customize the options in the above items
  - Customer-specific options for above items
  - Supports customized delegate grouping
  - Fast search facility
  - Database updatable
- ♦ Participants: select the delegates to participate in the conference from the database
  - List delegate information by group or by delegate type
  - Group adding function
- ♦ Delegate authority:
  - Degree: chairman or delegate
  - Authority: speak, vote and vote board

### ■ Microphone control: combined with venue design, seating arrangement, delegate management, conference management and microphone setup, for controlling and monitoring current microphone status, as well as automatic video tracking. Facility includes:

- ♦ Microphone on/off control
- ♦ Close all active microphone
- ♦ Approve/deny delegates' speaking requests
- ♦ Deny all speaking requests
- ♦ Delegate speech timing
- ♦ Record and save speaking
- ♦ Parliamentary mode control
- ♦ Detailed information available from the delegate database for online display purposes
- ♦ If cooperating with an automatic video tracking system, camera presets can be made for each discussion unit to transmit speaker's picture simultaneously to a hall display

## Functions

Seat arrangement, delegate management and microphone control sub-modules

- **Seat arrangement** facility includes delegate seating and unit arrangement function modules
  - ♦ Delegate seating is used to assign seats for the delegates, e.g.:

## Ordering Information

HCS-8213.....Microphone Management Software Module

## HCS-8214 Voting Management Module



Topics and voting

### Functions

Voting management, seat arrangement and delegate management sub modules.

#### ■ Voting management:

- ◆ Topics information management
  - Set up, save, add or delete topics file before the meeting
  - Open topics control interface and display topics content to large screen
  - Printout the topics list and information and distribute to delegates as meeting information
  - Multiple voting facilities available, suitable for various conferences, including:
    - ✧ For/Against
    - ✧ Parliamentary: YES/NO/ABSTAIN
    - ✧ Questionnaire: 1/2/3/4/5
    - ✧ Audience response: --/0/+/>++
    - ✧ Parliamentary (NPPV): YES/NO/ABSTAIN/NPPV
    - ✧ Appraisal:
      - ✧ satisfied (four keys voting: perfectly satisfied/satisfied/basically satisfied/unsatisfied)
      - (three keys voting: satisfied/basically satisfied/unsatisfied)
      - (two keys voting: satisfied/unsatisfied)
    - ✧ Qualified (four/three/two keys voting)
    - ✧ Competent (four/three/two keys voting)
  - Control modes: chairman control / operator control / time controlled voting
  - Calculation: predefined or in relation to the participants attending the meeting in person
  - Register mode: nominative/ballot
  - Validity mode: first key press valid/last key press valid
  - Pass rate: between 1% and 100%
- ◆ Multi-proposal voting at one time (for HCS-4368DM/50 series and paperless multimedia congress terminal)
- ◆ Display voting result to large screen
- ◆ Clear and vivid voting result display modes (numeric/bar/pie)
- ◆ Print or save voting result
- ◆ Sign-in before the voting to improve the security and validity of voting result

#### ■ Seat arrangement facility includes delegate seating and unit arrangement function modules

- ◆ Delegate seating is used to assign seats for the delegates, e.g.:
  - Assign a single seat for each delegate
  - Section seating, automatic seat assignment for a group of delegates, supports new assignment – in parts or entirely
  - Clear a single seat if required for a new assignment
- ◆ Unit arrangement: assign the Congress Units to the corresponding positions based on the true delegate seating, current cabling and layout:
  - Unit arrangement, assign the Congress Units to the true delegate seating
  - Delete unit, reassign the units
  - Locate seat position by menu operation
  - Operate the arranged units to check the arrangement

#### ■ Delegate management includes three sub-modules: delegate information, participants and delegate authority

- ◆ Delegate information: create and manage the delegate's database
  - Edit delegate information: number, type, name, voting weight, leader (yes or no), presidium (yes or no), etc. Supports individual picture in the database
  - Customer-specific options for above items
  - Supports customized delegate grouping
  - Fast search facility
  - Database updatable
- ◆ Participants: select the delegates to participate in the conference from the database
  - List delegate information by group or by delegate type
  - Group adding function
- ◆ Delegate authority:
  - Degree: chairman or delegate
  - Authority: speak, vote and vote board

### Ordering Information

HCS-8214.....Voting Management Software Module (including delegate management, multiform voting, multi-proposal voting)

## HCS-8215 Video Control Module



Video matrix



Camera control

### Functions

Carries out automatic video tracking when cooperating with camera and video switch unit.

- Set up video matrix: set input/output channels for computer, camera and other video apparatus according to the connections between video equipment and video switch unit. The configuration can be sent to the Congress Main Unit for synchronization
- Video switch: switch among different input and output video signals according to the video matrix
- Camera preset: cooperating with microphone management module to set and adjust the camera preset for each seat/microphone and to transmit speaker's video picture simultaneously to a hall display
- Camera control: preset the panorama of the conference venue

### Ordering Information

HCS-8215.....Video Control Software Module



## HCS-8216 Simultaneous Interpretation Module



Interpretation channel setup



Interpreter booth status

### Ordering Information

HCS-8216.....Simultaneous Interpretation Software Module

### Functions

Set up the simultaneous interpretation channels, interpreter booth(s) and booth IC-Card:

- Simultaneous interpretation channel setup:
  - ♦ Set the channel number and language for each channel and save into the database
  - ♦ Set language and its abbreviation
  - ♦ Send the configuration to the Congress Main Unit for synchronization
  - ♦ Display Congress Main Unit configuration on the window
- Set up interpreter booth(s)
  - ♦ Set the number of interpreter booth, and save into database
  - ♦ Set the outgoing for channel A, B and C of each booth
  - ♦ Set the auto-relay booths for each interpreter booth
  - ♦ Assign the interpreter booth afresh after booths combination
  - ♦ Send configuration to the Congress Main Unit for synchronization
- Manage interpreter booth: synchronously control and communicate with the booth during the meeting
- Set up booth IC-Card: Booth use or do not use IC-Card, set IC-Card password and write IC-Card

## HCS-8218 Intercom Module



Intercom interface

### Functions

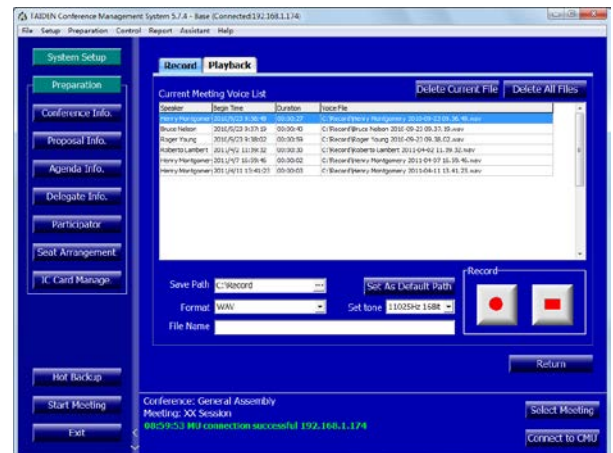
Provides bidirectional communication among the chairman, delegates, interpreters and operators:

- Multiplex communication session available
- Search facilities, fast locating of a delegate within the venue
- Easy to operate via control menu
- Communication session guided by the operator
- Enable remote operator
- Intercom only available for Congress Units equipped with LCD
- Paperless Multimedia Congress Terminal can initiate intercom without operator

### Ordering Information

HCS-8218.....Intercom Software Module

## HCS-8219 Synchronous Recording Module



Audio record interface

### Functions

Records speakers' audio information:

- Integrated into **TAIDEN** conference management application software, easy to operate
- Automatic recording:
  - ◆ Begin/end automatic recording according to microphone on/off
  - ◆ Set up record audio quality
  - ◆ Once microphone enabled, speaking delegate's voice is recorded in audio file (WAV or MP3 format)
  - ◆ Saved audio file available for copying, playback, etc.
- If automatic audio recording is not activated, operator manually starts/stops recording. Record file name display
- Audio playback:
  - ◆ Search facilities, search audio record file needed to playback quickly (by conference ID, speaker, begin time, continuous time, etc.)
  - ◆ "Playback All": recordings playback one by one
  - ◆ Recorded file playback, fast play, pause/stop, etc.
  - ◆ General file format saving: saved file playback by conventional media player
  - ◆ Delete any recorded file or all recorded files

### Ordering Information

HCS-8219.....Synchronous Audio Recording Management Software Module

## HCS-8221 Multi-User Console Module



The primary window of multi-user console

### Functions

If more than one operator is involved, a multi-user console is available for controlling speaking and voting, apart the system application software. A maximum of 5 multi-user consoles can be connected at the same time.

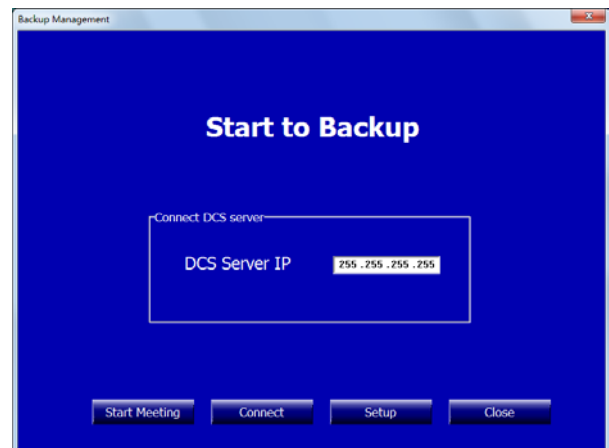
Basic conference control module:

- Microphone control
- Sign-in management
- Voting management
- Intercom
- Booth management
- Seat arrangement
- Proposal information
- Connect server
- Set up system parameters and download venue files from the server

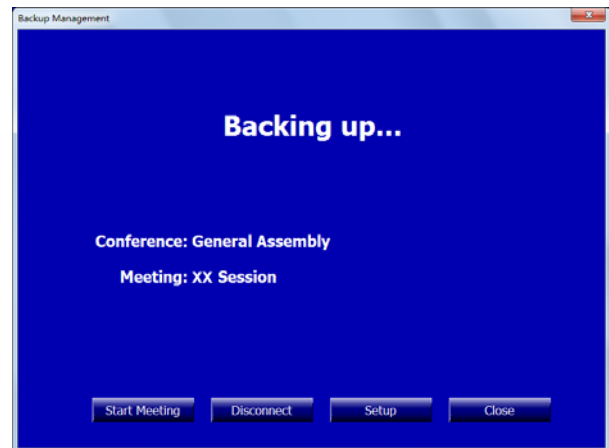
### Ordering Information

HCS-8221.....Multi-User Conference Control Software Module

## HCS-8222 Dual PC Server Hot Spare Module



Start to backup interface



Backing up interface

### Functions

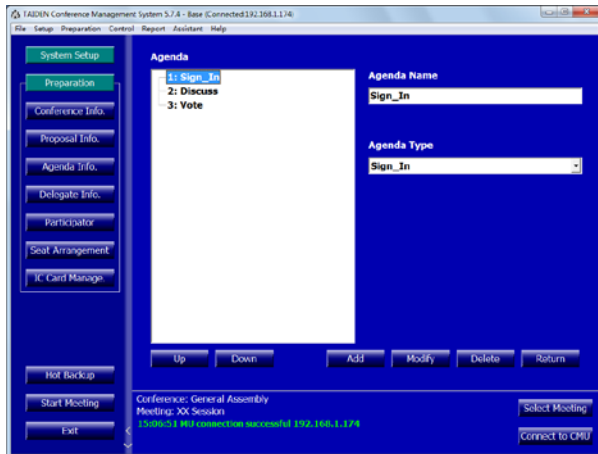
HCS-8300 dual PC server hot-spare is a disaster protective structure. If the main operating computer breaks down during a conference, the backup computer immediately substitutes the main computer and continues conference management.

After connection to main operating computer, the backup console application first starts an automatic backup (incl. database and conference related information). If there is any change in the database, the backup console application will update backup automatically.

### Ordering Information

HCS-8222.....Dual PC Server Hot Spare Software Module

## HCS-8223 Agenda Control Module



Agenda Information



Agenda control

### Functions

Agenda is a list of meeting activities in the order in which they are to be worked off. The agenda is prepared beforehand. It may include sign-in, voting and discussion. Agenda edit prepares all activities and their sequence to ensure convenience and a well arranged course of events.

Agenda Management module consists of agenda information management and agenda control sub modules.

- **Agenda information management:** edit agenda content and sequence
  - ◆ Includes agenda name, agenda type and activity
  - ◆ Sequence of each activity adjustable - user can add, modify, delete an activity
- **Agenda control:** control the meeting process according to the pre-defined agenda content and sequence
  - ◆ Select an agenda from the agenda list and execute it
  - ◆ List the status of each agenda
  - ◆ Agenda can be edited, added, modified, or deleted during the meeting

### Ordering Information

HCS-8223.....Agenda Control Software Module

## HCS-8224 Speech Prompt Module



Speech prompt

### Functions

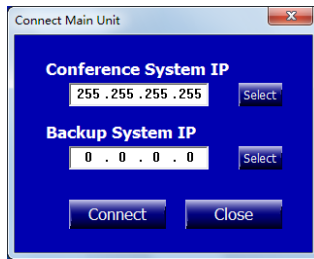
Speech Prompt Module is a displayed line-by-line reproduction of the speech to assist the speaker. The lecture unrolls smoothly and can be controlled manually or automatically.

- Manual control: unrolling sentence by sentence, operator can unroll the lecture by "Previous (Sentence)" or "Next (Sentence)"
- Automatic control: automatically unroll the lecture character by character, the scrolling rate can be set

### Ordering Information

HCS-8224.....Speech Prompt Software Module  
(independent from DCS software, run by PC)

## HCS-8225 Dual System Main Unit Hot Spare Module



Connect to CMU

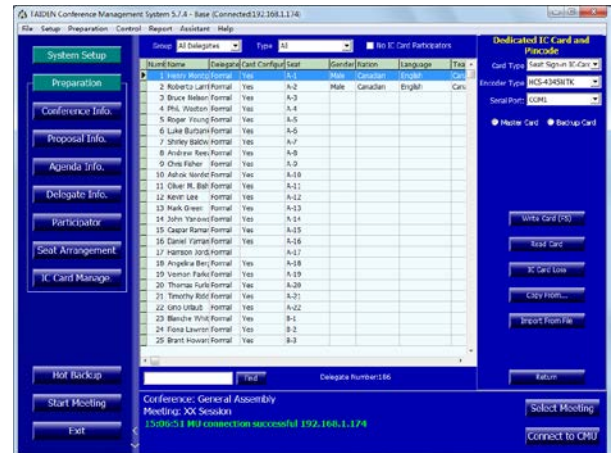
### Functions

HCS-8300 dual main unit hot spare is a disaster protective structure. Besides the Congress Main Unit, user can set another Congress Main Unit as backup Congress Main Unit and connect it to the system. If the Congress Main Unit breaks down during the conference, the backup Congress Main Unit substitutes the Congress Main Unit and system software will connect to backup Congress Main Unit automatically, ensuring consistency of the conference.

### Ordering Information

HCS-8225.....Dual System Main Unit Hot Spare Software Module

## HCS-8226 Touched/Contactless IC-Card Sign-in Management Module



IC-Card distribution

### Functions

**IC-Card distribution, IC-Card loss, IC-Card take back and delegate management sub modules**

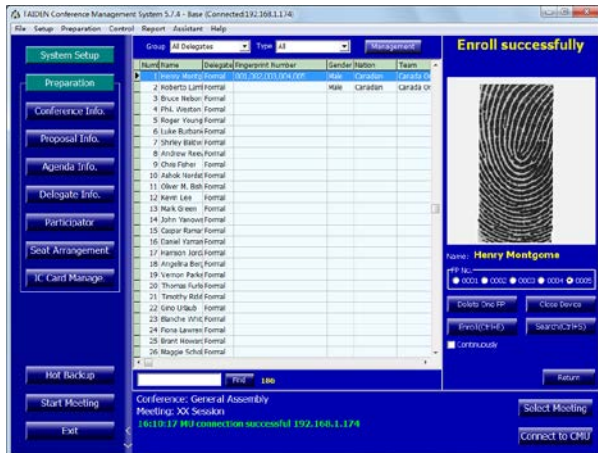
- **IC-Card distribution:**
  - ◆ The IC-Card contains conference number, participant's number, identity, rights, etc.
  - ◆ Card authentication restricted to one conference facility. New authentication subject to IC-Card rewriting
  - ◆ Write IC-Card before IC-Card distribution
- **IC-Card loss:** report card loss. Cards counted for lost cannot carry out conference sign-in
- **IC-Card take back:** when the conference is over, the cards used during the conference can be taken back, erased and rewritten for next use
- **Delegate management** includes three sub-modules: delegate information, participants and delegate authority
  - ◆ Delegate information: create and manage the delegate's database
    - Edit delegate information: number, type, name, voting weight, leader (yes or no), presidium (yes or no), etc. Supports individual picture in the database
    - Customer-specific options for above items
    - Supports customized delegate grouping
    - Fast search facility
    - Database updatable
  - ◆ Participants: select the delegates to participate in the conference from the database
    - List delegate information by group or by delegate type
    - Group adding function
  - ◆ Delegate authority:
    - Degree: chairman or delegate
    - Authority: speak, vote and vote board

### Ordering Information

HCS-8226.....Touched/Contactless IC-Card Sign-in Management Software Module



## HCS-8229 Fingerprint Identification Management Software Module



Fingerprint management

### Functions

#### Fingerprint management and delegate management sub modules

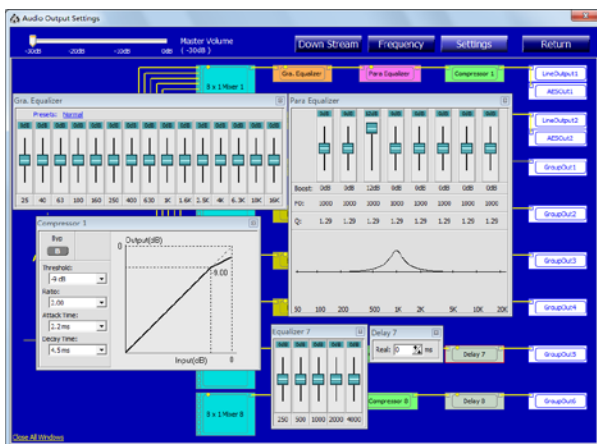
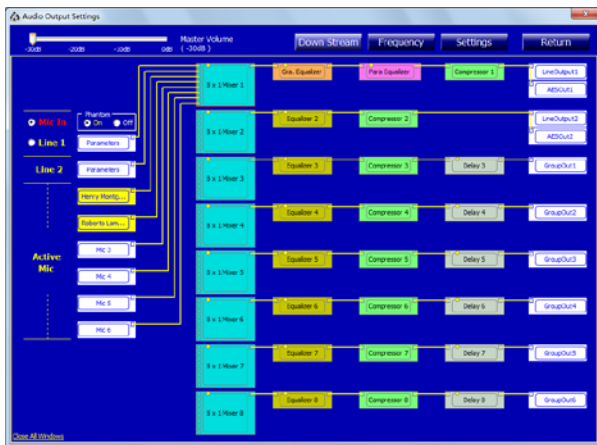
- **Fingerprint management:**
  - ◆ Enroll fingerprint and the fingerprint data will be numbered automatically by the system
  - ◆ Search fingerprint and the result is listed with matching score
  - ◆ Delete fingerprint before meeting started
  - ◆ Import/export fingerprint data from/to file before meeting started
- **Delegate management** includes three sub-modules: delegate information, participants and delegate authority
  - ◆ Delegate information: create and manage the delegate's database
    - Edit delegate information: number, type, name, voting weight, leader (yes or no), presidium (yes or no), etc. Supports individual picture in the database
    - Users can customize the options in the above items
    - Customer-specific options for above items
    - Supports customized delegate grouping
    - Fast search facility
    - Database updatable
  - ◆ Participants: select the delegates to participate in the conference from the database
    - List delegate information by group or by delegate type
    - Group adding function
  - ◆ Delegate authority:
    - Degree: chairman or delegate
    - Authority: speak, vote and vote board

### Ordering Information

HCS-8229 ..... Fingerprint Identification Management  
Software Module



## HCS-8238 CongressMatrix Software Module



CongressMatrix Software Interface

### Functions

HCS-8300 Series Paperless Multimedia Congress System based on TAIDEN originated CongressMatrix™ technology, embedding an  $n \times 8$  audio matrix processor ( $n$  is the number of microphones connected in the system) in the Congress Main Unit which enables connection to a multi channel independent PA system (up to 8 channels).

- 8 discrete audio outputs, including:
  - ◆ Line 1 output: 15 band graphical EQ + 8 band parameterized EQ + DRC (dynamic range compressor)
  - ◆ Line 2 output: 5 band graphical EQ + DRC (dynamic range compressor)
  - ◆ Group output 1~6: 5 band graphical EQ + DRC (dynamic range compressor) + time delay (Maximum delay time for 32 kHz sampling rate is 1.5 s, maximum delay time for 48 kHz sampling rate is 1 s.)
- Connectable to a multi channel independent PA system (up to 8 channels). Each channel is supplied with its proper audio signal. The audio signal of each microphone can be routed to any speaker at any ratio, thus "N-1" function can be realized easily: (when the microphone in one area is turned on, its audio signal is only routed to all areas except to its own) avoiding acoustic feedback (howl) when audio transmission gain is increased

- 8 channels group output function
- Recording by group function
- Gain and EQ (5 band) of each microphone adjustable separately, fitting the individual orator's voice to achieve perfect speech pickup any time
- Integrated high-pass filter (low-cut switch) to cut low frequency elements from the audio when needed
- Displays audio signal spectrum to determine howling frequency which can be suppressed by adjusting EQ parameters
- 2 audio line in (analog, digital, Dante) or 1 audio line in (analog, Dante) + 1 microphone input, gain and EQ for each input adjustable separately. +24 V phantom power supply at microphone input, condenser microphone can be connected directly
- Connectable to multi channel audio input or output devices for versatile expansion of the system

### Ordering Information

HCS-8238.....CongressMatrix Software Module

## HCS-8239 Congress Service Management Software Module



Congress Service

### Functions

Paperless Multimedia Terminals and HCS-4890/4891 series congress units have a service request function. The participants can call for a service, the participant's name, seat and service type will be displayed on operator's monitor.

### Ordering Information

HCS-8239.....Congress Service Management Software Module

## HCS-8240 Video Service Software Module



Video Service

### Functions

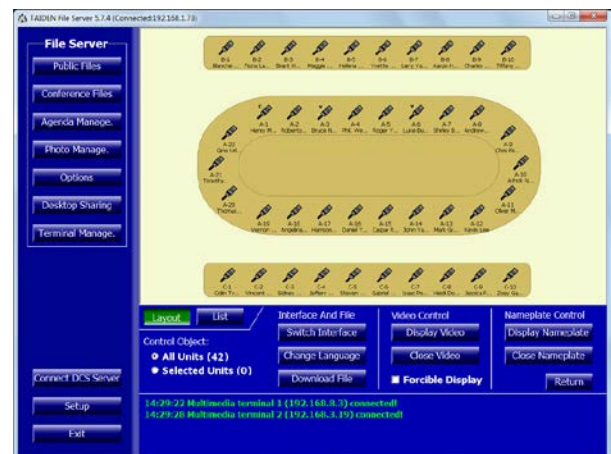
Cooperating with HCS-8338 and HCS-8348 series Paperless Multimedia Congress Terminal, video service module can realize video display, multiple channel VOD (up to 10 channels) and broadcasting, display the camera video of designated Congress Terminal, monitoring desktop sharing, includes:

- Encoder:
  - ◆ Multiple channel video broadcasting: through video encoder and video server, various video sources (such as high-definition camera, cable TV, video, etc.) can be broadcasted in high-definition synchronously to all Congress Terminals
  - ◆ Multiple channel VOD (up to 10 channels)
  - ◆ Video display function:
    - The large hall screen video can be displayed on the Paperless Multimedia Congress Terminals through video encoder and video server
    - Advertising videos can be published on video server and watched on Paperless Multimedia Congress Terminals
- Camera: the camera video of designated Congress Terminal can be displayed on monitor; in video tracking mode, when the delegate turns on his/her microphone, the camera video of his/her Congress Terminal will be displayed on monitor automatically
- Desktop sharing: the operator can easily monitor and control desktop sharing.

### Ordering Information

HCS-8240.....Video Service Software Module

## HCS-8241 File Management Software Module



File Management

### Functions

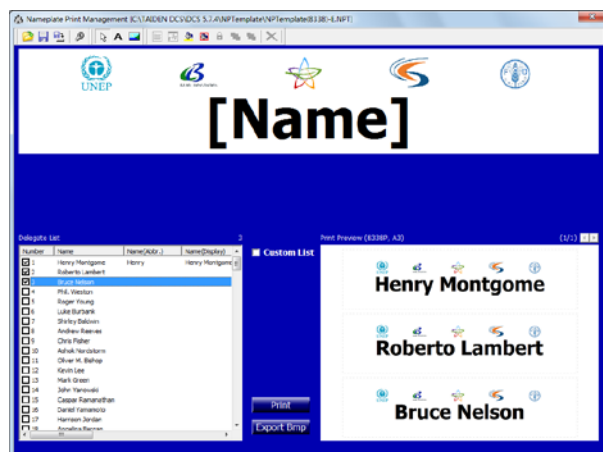
Cooperating with HCS-8338 and HCS-8348 series Paperless Multimedia Congress Terminal, the file management module can realize conference file management, agenda management, photo management, multimedia terminal authority configuration, and multimedia terminal management.

- Public files management: upload, download, delete files from file server to batch or single designated Congress Terminals, or upload, download files from Paperless Multimedia Congress Terminal; file access authority control; file archive
- Conference file management: export photos and room files
- Agenda management: edit and distribute meeting agenda to Paperless Multimedia Congress Terminals
- Photo management: view and edit photos taken when voting
- Options: set up authority for Paperless Multimedia Congress Terminals
- Desktop sharing: desktop sharing control
- Multimedia terminal management: including terminal desktop and file control, video control and nameplate control

### Ordering Information

HCS-8241.....File Management Software Module

## HCS-8242 Nameplate Design Software Module



Nameplate Print Management

### Functions

The software module to design the congress nameplate supports the nameplate designing and printing for Paperless Multimedia Congress Terminals.

- Fast, environment-friendly and non-glaring nameplate system
- Informative and illustrated
- Automatic generation of the nameplate files once the session database completed, nameplates ready for use immediately after printing
- Printable by normal printer
- For HCS-8338, HCS-8348, HCS-8335 and HCS-8336 series Multimedia Congress Terminal

### Ordering Information

HCS-8242.....Congress Nameplate Design Software Module

## HCS-8245S Document Management System Software



Room combination

### Functions

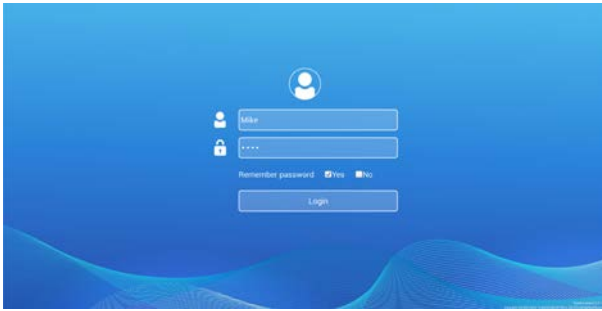
The conference document management system software is a server configured on the computer, which can classify and manage documents of different conferences. The documents that have been reviewed and distributed can be viewed and annotated by the participants on terminals.

- Home page: display information of this meeting such as file
- Delegate management: delegate information management, add, edit, delete, import/export/recover delegate, assign roles, set up their user name and password on terminal login-in system
- Meeting management: add, edit and delete meeting information
- File management: including file information, client control and file comment
- System setting: including document reader, user information, role information, parameter settings and app style;

### Ordering Information

HCS-8245S.....Document Management System Software  
(Independent setup on PC)

## HCS-8245APP Document Reader APP



Room combination

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### Functions

HCS-8245APP is an APP program installed on the terminal and used in conjunction with the HCS-8245S. After the installation is completed, the user can log in on the terminal to view the conference documents distributed by the HCS-8245S document management system software, and can annotate the documents. , and then upload it to the document management system.

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### Ordering Information

HCS-8245APP.....Document Reader APP (for Android system)